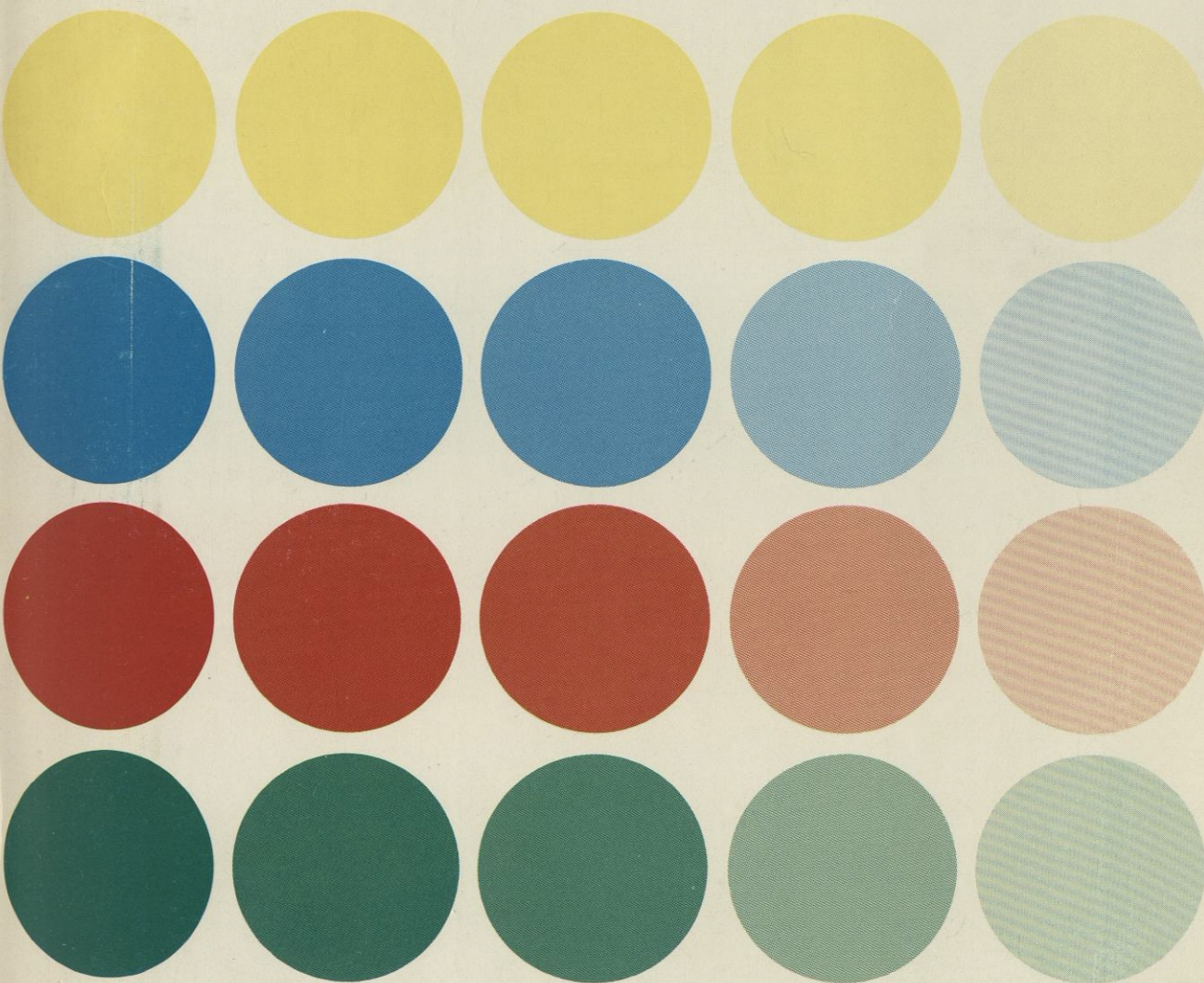




# ASCO

## AUSTRALIAN STANDARD CLASSIFICATION OF OCCUPATIONS

Working draft



1983  
DEPARTMENT OF EMPLOYMENT AND INDUSTRIAL RELATIONS  
AND THE AUSTRALIAN BUREAU OF STATISTICS

THE DEPARTMENT OF EMPLOYMENT AND INDUSTRIAL RELATIONS  
and  
THE AUSTRALIAN BUREAU OF STATISTICS



# **AUSTRALIAN STANDARD CLASSIFICATION OF OCCUPATIONS**

## **WORKING DRAFT**

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## ACKNOWLEDGEMENTS

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The conceptual development of the project owes a great deal to the work of academic researchers, in particular, the job content factors which are based on published research findings. The research work of Professor E J McCormick *et al* and their "PAQ" job analysis questionnaire deserves a special mention.

Several overseas government departments have also provided considerable assistance during the development of ASCO, especially the Employment Departments in Canada, West Germany, the United Kingdom and the USA.

The permission of the Canadian Department of Manpower and Immigration to base ASCO on its Classification and Dictionary of Occupations is gratefully acknowledged.

## **WAGE SETTING AND INDUSTRIAL RELATIONS DISCLAIMER**

In the program of studies to determine the data for inclusion in this publication, many thousands of occupations were examined and analysed to determine their content. No facts were collected, however, on such matters as hours of labour, wages or salaries, or other related employment practices for specific jobs (as distinct from occupations).

It should be noted further that the content of the specific job varies with each individual establishment while most of the occupational definitions in ASCO are described in broad terms. For this reason, the data in ASCO cannot be considered as a standard for setting working conditions, pay scales or related employment conditions.

## SOME POINTS ON HOW TO USE THE ASCO WORKING DRAFT

Information contained about a particular occupation in this ASCO Working Draft is best found by referring to the Alphabetical List in Appendix III. If there is initial difficulty in finding a particular title, e.g. First Class Machinist, a search should then be undertaken of the reverse order of titles, e.g. Machinist, First Class, and/or alternative titles.

The Alphabetical List contains two codes - A and B - for most of the occupation titles listed.

**CODE A** is a five character alpha-numeric code and the Main Dictionary is presented in sequence according to this code. The entry for each ASCO occupation in the Main Dictionary consists of two components:

- a narrative which presents basic information about the nature of each occupation including some detailed description of the activities undertaken and an indication of specialist duties which may be performed (Where the narrative makes reference to a MASTER TITLE, a full description can be found in Appendix I.);
- a set of codes which characterise the activities and requirements of occupations in terms of dimensions called Job Content Factors (JCF's), a description of which may be found in Appendix II.

**CODE B** is an eight digit numeric code and the Alternative Approach to the classification is presented in sequence according to this code. The Alternative Approach provides broad descriptions of the activities undertaken in the unit groups of occupations in that classification. These descriptions commence on page 817 in both the complete volume of the Working Draft and offprint Volume IX.

To find out information about a number of occupations that seem to be similar to a particular occupation (e.g. Machinist, First Class), in terms of kind of work performed the recommended method is to

- search the Alphabetical List for the required title and its appropriate code (e.g. Machinist, First Class - 6022-A in Code A, or 0701-0701 in Code B);
- locate this title in the appropriate Structural List;
- examine the occupations in adjacent groupings and their descriptions in the Main Dictionary and Alternative Approach.

Further information about the nature of the classification and its development and the two broad structures presented in this Working Draft can be found in the Introduction (page ix) and the Explanatory Notes to the Alternative Approach (page 783).

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# OFFPRINTS OF THE WORKING DRAFT OF ASCO

The Working Draft of the Australian Standard Classification of Occupations (ASCO) has been produced in two forms, namely a bound book and a set of separate volumes of offprints as follows:

		Pages
Volume I	Key to ASCO	
	Introductory Pages	i - xv
	Structural List	xvi - xxxiii
	Alternative Approach	783 - 788
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	Appendix II Job Content Factor Manual	II1 - II9
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# INTRODUCTION

## OVERVIEW AND STATUS OF THIS DRAFT

This draft of the Australian Standard Classification of Occupations (ASCO) represents a major milestone in its development. It marks the conclusion of the field work phase, during which the main emphasis was on the development of the more detailed components of the classification, i.e. that part which is referred to as the dictionary of occupations in this draft. This included the identification, delineation and description of all the ASCO occupations, the determination of their Job Content Factor values and their presentation within the broader, though somewhat more tentative, categories shown in the Main Dictionary.

The next and concluding phase in the preparation of this classification will concentrate on the further development of its broader structures and on testing the classification to ensure operational viability in statistical and job matching operations.

Two "kind of work" structures are provided in this document. The dictionary structure based on the Canadian Classification and Dictionary of Occupations (CCDO) and developed through field work and validation forms the body of this publication (i.e. the unit, minor, major and super groups). The alternative structure (presented in the chapter "An Alternative Approach to a Kind of Work Structure") is based on work to date in appraising ASCO criteria, and on initial assessments of the operational viability of unit and broader groups for ABS statistical collections.

This is the first occasion on which the structures are being presented in their entirety. Further analysis of these structures, as well as the outcome of operational tests, may lead to significant changes in the final classification structure. The work is targeted for completion by mid 1985. The final manuscript of the classification documents will then be prepared for printing and publication.

Other broad structures proposed for ASCO will emphasize skill and socio-economic characteristics of occupations while special occupational profiles for particular industries are expected to be provided for use by persons and organisations interested in the occupational composition of industry-related workforces.

## REASONS FOR DEVELOPING ASCO

At present a number of different occupational classifications are in use by agencies of the Commonwealth Government. For example, there is the classification used by the ABS in compiling and publishing workforce statistics by occupation in Population Censuses, Labour Force Surveys and some other collections. The CES uses another classification in matching job seekers with job vacancies. These classifications and the one used by the Department of Immigration and Ethnic Affairs were devised a long time ago and have a number of shortcomings which have grown more acute over the years. They include:

- inappropriate classification of occupations so that the labour force organisational relationships between occupations are not clearly identified;
- non-industry specific occupations identified on an industry basis, and excessive industry orientation;
- absence of occupational definitions and descriptions;
- lack of comparability between the different classifications;
- lack of balance;
- inappropriate and obsolete categories;
- occupational categories that contain widely different jobs involving different skill levels;
- inadequate treatment of occupations in new fields;
- lack of information on occupational characteristics such as training requirements and physical activities.

These shortcomings have been highlighted in recent years by several official committees and organisations. For example the review of the Commonwealth Employment Service (Norgard Report) of June 1977 commented:

"The CES Occupational Code is inadequate and defective. The Code is out of date and many classifications are faulty. Some occupations are incorrectly arranged within the skilled, semi-skilled and un-skilled groups. Details which are important for labour market information purposes are lost through the merging of some relatively important occupations into occupational categories which include other less important or quite different occupations."

In relation to the ABS classification, the report of Working Group No 2 of the Study Group on Structural Adjustment (Crawford Report) of June 1978 observed:

"...the occupation classification used by the ABS falls well short of what is required to support reasonable standards of labour market analysis. The classification is not skill oriented and in many cases occupations which require little or no skill are lumped together with highly skilled occupations under one heterogeneous occupational category."

Against this background DEIR and ABS decided in late 1978 to proceed with the development of a standard occupational classification system as a joint program for use by government bodies and other interested organisations within Australia.

### THE BENEFITS AND PURPOSES OF ASCO

Once completed, ASCO will provide a systematic multi-purpose classification and dictionary of occupations for Australia. It will assist in, and many cases be essential to, statistical and other work leading to:

- more efficient matching of job seekers to vacancies by the CES. ASCO will provide detailed, technically superior and standardised occupational information thereby improving communication between CES officers, job applicants and employers;
- better labour market analysis. ASCO generally provides more detailed categories and occupational information than is presently available;
- better manpower management. Occupational aggregations in ASCO are more homogeneous with respect to kind of work performed, education and training requirements and skill, thus allowing improved information on the flow from education and training institutions to the labour market and between occupational categories within the labour market;
- better design of educational and training programs;
- greater accessibility of occupational information to job seekers, employment officers and career teachers.

### THE ASCO DEVELOPMENT PROCESS

#### *Basic Considerations*

The broad parameters for developing ASCO are to be found in the endorsements and recommendations of the Norgard and Crawford reports and the results of a user requirements survey conducted jointly by the ABS and DEIR during 1979.

Thus, in accordance with the endorsement in the Norgard report, the starting point chosen for the development of ASCO was the CCDO which is a four-tiered classification comprising 23 major groups, 81 minor groups, 498 unit groups and over 6700 occupations. The features of CCDO which made it suitable as a basis for developing ASCO included:

- detailed descriptions of all categories at every level of the classification;
- very fine disaggregation at the occupational level;
- rating of occupations according to the vocational preparation required for them;
- information on occupational characteristics such as physical activities, environmental conditions and worker functions; and
- its use in Canada for most of the purposes ASCO is to serve in Australia (i.e. job placement, vocational guidance and statistical collections).

The user needs ascertained in the survey and the Crawford report recommendation were expressed in a positive fashion as criteria for defining ASCO categories. These criteria, which are further elaborated below, require that occupational categories in ASCO be as homogeneous as possible (i.e. as far as operational considerations permit) with regard to kind of work performed, skill level and specialisation, level of supervisory or managerial responsibility, level of formal educational qualifications and other specified training requirements, trainee status and exclusively military characteristics. Therefore, while the Canadian classification was superior to existing Australian classifications it did not meet all the requirements of users. Accordingly the application of these criteria led to a number of departures from CCDO, the most important of which are:

- inclusion of all Australian occupations;
- reduction in the degree of identification of "occupations" in the semi-skilled and unskilled areas of the workforce;
- homogeneity of the occupations and unit groups in terms of the above (ASCO) criteria.

To obtain occupational categories that are homogeneous with respect to all the classification criteria requires that they be considerably disaggregated. This is only possible at the more detailed levels of an occupation classification in which the number of categories is relatively large. At the intermediate and broader levels of a classification, where the number of categories is significantly and progressively reduced as one moves up the hierarchic structure, progressively fewer criteria can be applied until, usually, only one criterion can be given priority.

In view of the foregoing, the following strategy was adopted for developing ASCO:

- CCDO was taken as the starting point;

- a mutually exclusive and jointly exhaustive set of ASCO occupations was derived from fieldwork. These were as homogeneous as practical considerations permitted with respect to all the "ASCO criteria";
- a mutually exclusive and jointly exhaustive set of ASCO unit groups was formed by aggregation of the ASCO occupations. Each of these unit groups was also as homogeneous as practical considerations permitted with respect to all of the criteria;
- attempts were made to develop at least two principal broad ASCO structures from the one common set of ASCO unit groups. One of the principal structures was devised by the aggregation of ASCO unit groups into minor groups and of minor groups into major groups by the application of the "kind of work" criterion, broadly along CCDO lines. The other is being devised by a similar process of aggregation but by the application of the "skill" criterion. A third broad structure is also foreshadowed - to be devised in the same manner as the two principal structures but by the application of socio-economic characteristics of occupations;
- The reasons for adopting this approach derive partly from the difficulty of applying more than one classification criterion for the purpose of devising broad classification categories and the fact that user demand was strongest for ASCO categories to reflect kind of work and skill characteristics, and the desirability (on cost grounds) to code occupations only once (i.e. to unit groups in most statistical collections). This would enable statistics for the broader ASCO categories in each of the different structures to be derived by simple mechanical processes.

This conceptual strategy was established in the formative stages of ASCO's development which spanned the period late 1978 to mid 1979. Work during this period also included setting up the joint DEIR/ABS ASCO development team, conduct of initial research related to conceptual aspects of ASCO, conduct of the user requirements survey, negotiations between DEIR and ABS on the strategy outlined above and identification and sequencing of the broad tasks to be undertaken in developing ASCO. The latter are outlined below.

### *The ASCO Development Program*

Actual ASCO development started in mid 1979 and required the conduct of the following broad tasks to the point of issuing this working draft:

- field investigations by DEIR regional officers attached to the ASCO development team. These investigations involved the allocation of CCDO segments to regional officers, contact with professional, trade and other representatives to evaluate CCDO occupations with regard to their relevance to Australia, determination of occupational Job Content Factor values, initial evaluation of the occupations in the light of ASCO criteria and drafting of ASCO field work segments;
- preparation of ASCO first draft segments within the kind of work structure as it emerged from field work. This task also included a closer evaluation of proposed ASCO occupations and unit groups in the light of ASCO criteria;
- wide circulation of ASCO first draft segments to interested public and private sector organisations and persons for comment;
- preparation of the second or working draft of ASCO on the basis of comments received, any initial assessments of operational viability of ASCO and any other work done by the ASCO project team, e.g. on Job Content Factors and ASCO structuring.

The next and final phase in the preparation of ASCO envisages conduct of the following broad tasks:

- further development of ASCO structures on the basis of the information in this working draft and further research. As part of this task, proposals on ASCO structuring are expected to be presented in special papers for comment by users of occupational information and statistics;
- operational testing of ASCO within DEIR and ABS on the basis of the working draft or special test versions derived from the working draft. The objective of this task is to fine tune ASCO and to ensure that the categories in the final ASCO are operationally viable for job matching, statistical collection and coding, and other purposes;
- evaluation of results flowing from the preceding two tasks and publication of a first edition of ASCO by 1986.

### *Implementation and Use of ASCO by the CES and the ABS*

The Commonwealth Employment Service will implement the current working draft of ASCO early in 1983 for the matching of job applicants against job vacancies. Consideration is also being given to the use of ASCO for the collection of CES statistics. The ABS will, on present expectations, implement the first edition of ASCO in its statistical collections in 1986.

For ABS purposes it is important to note that the unit group level of ASCO is expected to be used generally as the most detailed level for statistical coding purposes. However, this would not always imply that publication of statistics would also have to be at that level - this may need to be at more aggregate ASCO levels in collections using sampling techniques. Further, where the occupational descriptions obtained in a particular collection are of a sufficiently high quality to permit coding to ASCO occupations, there would be no technical reasons for not coding at that level.

## THE CRITERIA FOR DEFINING ASCO CATEGORIES

The following points provide a detailed explanation of the ASCO criteria.

- *Kind of work performed* This criterion is concerned with what a person is doing in a job, how person is doing it and, in some cases, why the person is doing it. It may involve identification of materials worked on (if any), products or services produced, and machines, tools, equipment or work aids used.
- *Skill level* This criterion is concerned with those aspects of general education, specific vocational preparation and experience which, taken together, are generally regarded as necessary prerequisites for satisfactory performance of an occupation<sup>1</sup>.
- *Skill specialisation* This criterion is concerned with delineating occupational categories (in terms of kind of work performed) within skill levels such that people could generally change from one occupation to another without significant or complete retraining. In this context, the potential for people to move to jobs of a lower skill level is not considered relevant.
- *Level of supervisory or managerial responsibility* This criterion is concerned with the extent to which the occupant of a job is required to plan, organise, direct, control or supervise the work of others. [For operational purposes in the Main Dictionary ASCO identifies all management occupations in Super Group 1, while supervisor/foreman/woman occupations are identified at the unit group level within the same minor group as the workers they supervise. Levels below supervisor/foreman/woman (such as leading hand) have not been separately identified and are classified with the occupations they oversee. Note that the terms "manager", "supervisor" and "foreman/woman" are frequently used loosely or for status purposes (e.g. sales manager for a counter hand in a large store). In such cases the duties do not reflect the range and rigor of activities normally associated with ASCO management occupations, hence this criterion must be carefully applied using the ASCO Master Titles (Appendix I) for managers and supervisors/foremen/women.]
- *Level of formal educational qualifications and other specified training requirements* This criterion refers to the minimum level of formal education and other specified training required for entry into and/or performance of the major tasks of an occupation. [However it needs to be recognised that many occupations, some of which are quite skilled, do not require formal education or training prerequisites. Also in many occupations where formal qualifications are widely perceived as essential, a significant proportion of workers in these occupations do not possess formal qualifications. For example, in the trade occupations, workers without formal trade qualifications represent between about 10% and 30% of employees].
- *Trainee status* This criterion separately identifies those occupations established specifically as trainee occupations, e.g. trainee nurse or apprentice occupations.
- *Exclusively military* Occupations that occur only in the military services are coded to a separate ASCO category and are not disaggregated.

### Additional Considerations

In the foregoing paragraphs as, indeed, throughout ASCO, the terms "job" and "occupation" are frequently used. They are defined and related to each other in the following manner:

- A JOB is a set of tasks performed by one individual.
- Two jobs are SIMILAR if and only if they require the performance of the same set of tasks.
- An OCCUPATION is a set of jobs which require the performance of a common set of tasks.
- An ASCO OCCUPATION, i.e. a category at the most detailed level of ASCO is a set of occupations which are as homogeneous in terms of the ASCO criteria defined above as practical considerations permit.

Other considerations that are taken into account in determining ASCO occupations and the broader ASCO categories include the following:

- *Operational feasibility* In the CES this relates to job applicant/job vacancy matching while in the ABS relates to coding operations. Coding for ABS statistics requires that ASCO categories are so defined as to enable a high proportion of the occupational titles collected in surveys and the census to be unambiguously coded to unit groups.
- *Size of the workforce* This is a consideration in determining the minimum level at which ASCO occupations are identified and the detail in which they are described. As a general rule the estimated labour market size for unit groups is not less than 1000, and for occupations not less than about 300. There are exceptions to this rule, for example in cases where occupations or unit groups are deemed to be particularly important or well known. Apart from these circumstances, occupations with a small labour market size are listed in residual occupational groups or, where appropriate, as occupational specialisations.
- *Compatibility with the INTERNATIONAL STANDARD CLASSIFICATION OF OCCUPATIONS (ISCO)* Attention will be given to linking ASCO categories to equivalent categories in ISCO.

<sup>1</sup> This definition of skill level was developed by the project team, taking into account the results of the user requirement survey. Experience since then suggests that achieving a balance between operational requirements and a reflection of labour market reality requires further work before a final definition can be settled on for use in producing the First Edition and related structures.

## ASCO FORMAT

The structure shown in the Main Dictionary consists of ASCO occupational categories in five hierarchically linked levels. The categories of each of these levels are mutually exclusive and jointly exhaustive of all occupations.

The ASCO code in the dictionary is made up of 4 digits and 1 alpha character. An explanation of the code is as follows:

- on a very broad basis the labour market has been divided into 9 categories known as "Super Groups". These are indicated by the first digit in each code.
- the Super Groups are divided into 27 "Major Groups" which are based on parameters such as fields of knowledge, materials worked on, tools and equipment used and goods or services produced. Major Groups are indicated by the first two digits in each code.
- the Major Groups are divided into 108 "Minor Groups" which are based on applying the "type of work done" criteria at a more detailed level. Minor Groups are indicated by first three digits in each code.
- the Minor Groups are divided into 524 "Unit Group" categories which are identified on "type of work done" combine with "skill-level". These are indicated by all four digits in each code.
- the Unit Groups have been divided into 2208 individually identifiable occupations. These are indicated by the alpha character in each code. Examples are as follows:

Super Group	: 7	Transport and Materials Handling Occupations
Major Group	: 70	Transport Operating Occupations
Minor Group	: 700	Air Transport Operating Occupations
Unit Group	: 7001	Air Pilots and Flight Instructors
Occupation	: 7001-C	Helicopter Pilot.

In addition there are approximately 4,300 specialisation, alternative and inverted occupational titles which appear within occupational categories but are not separately coded.

These titles are listed in the Alphabetical Index where they are identified by the inclusion of the symbols (a) or (sp) in brackets, where

(a) indicates that the title shown is an alternative title for an occupation, and

(sp) indicates that the title shown is a specialisation of an occupation.

The digit "9" indicates major, minor, and unit groups where, in general, small or insignificant occupations have been grouped. These are residual categories and "occupations" placed in these codes are not necessarily homogeneous except in a general sense. Likewise, the letter "z" indicates residual occupational categories.

## THE OCCUPATIONAL ENTRIES

The entry for or description of each ASCO occupation in the Main Dictionary consists of a number of components.

One set of components is narrative. It presents basic information about the nature of each occupation including some detailed description of the activities undertaken, and an indication of specialist duties which may be performed.

The second set of components is the Job Content Factors. They will be of particular interest to those concerned with occupational analysis or career counselling and vocational education. This set of components presents, in coded form, supplementary information covering several dimensions of occupations.

### *Narrative Components of ASCO Occupational Entries*

Each ASCO occupational description consists of the following narrative components:

- **Title** This is the most commonly used occupational title in Australia, or that which is most descriptive of the occupation, within the guideline that all occupational titles be non-sexist. Where there are two or more occupations different in content but usually known by the same title, their titles in ASCO will be qualified on the basis of the kind of work done in order to distinguish them e.g. Draftsman/woman, civil engineering.
- **Alternative Title(s)** These are listed immediately below the occupational title.
- **Lead Statement** This is a concise description of the nature and purpose of the occupation. It describes the main activities undertaken, or goods or services produced by the worker in the occupation.
- **Statement of Duties** This describes in more detail the duties, activities or processes undertaken. This will not always coincide exactly with the duties required in every job situation. However, it will indicate either

directly or by inference, what the workers normally do, how they do it and, in some cases, why they do it. On occasion, the duties of a number of workers are described, but each worker may not necessarily perform all of them. In such cases, the lead statement will indicate this by prefacing the statement of duties with a phrase such as "performs any combination of the following duties".

- *Occasional or Specialist Duties* These are described at the end of the statement of duties.
- *Titles of Specialisations* These are listed below the occasional or specialist duties. In cases where one or more alternative titles for an occupational specialisation, such titles are listed adjacent to one another and are separated by a semicolon.
- *Master Titles* have been used in cases where activities are common to a large number of different occupations. The Master Title is usually referred to in the statement of duties given for the occupation concerned and may be found, with an accompanying description, in Appendix I.

#### *Job Content Factors in ASCO Occupational Entries*

Each occupational description in ASCO, with the exception of the residual occupational groups, will be accompanied by coded Job Content Factors. These factors have been chosen because of their usefulness in occupational analysis, career education, vocational counselling and job placement activities. While not exhaustive, they provide a simple systematic key for occupational activities and requirements that supplements the narrative statements.

Details on the theoretical basis for the Job Content Factors and the key to the codes are contained in Appendix II.

## REQUEST FOR COMMENTS

Interested persons and organisations are invited to comment on this draft. The aspects on which particular comment is invited include the following:

- the completeness of the coverage of occupations in the draft;
- the usefulness of the classification for job applicant/job vacancy matching;
- the usefulness of individual ASCO categories for statistical analysis, (e.g. whether as part of an organisation's management information or in a broader context), especially in the case of ASCO unit groups and broader categories;
- indications as to which set of ASCO categories, in total or individually, in the two alternative structures is considered to be more useful for the purposes of providing statistics and other information on occupations;
- the accuracy and comprehensiveness of the material in the occupational descriptions and associated Job Content Factors.

While these matters are of particular interest to the ASCO development team, comments on any other aspects of the draft are, of course, welcome. In providing comments it is important to also provide objective and detailed justifications in support of them, particularly where changes are proposed.

Comments on the Working Draft should be directed to the ASCO Project at either of the following addresses:

**The ASCO Project  
Department of Employment and Industrial Relations  
PO Box 399  
CANBERRA CITY  
ACT 2601**

**or**

**The ASCO Project  
Classification Section  
Australian Bureau of Statistics  
PO Box 10  
BELCONNEN  
ACT 2616**

**LIST OF SUPER AND MAJOR GROUPS**

- 1       MANAGERIAL AND  
ADMINISTRATIVE OCCUPATIONS**
  - 10     MANAGERIAL AND  
ADMINISTRATIVE  
OCCUPATIONS
- 2       PROFESSIONAL AND RELATED  
OCCUPATIONS**
  - 20     NATURAL SCIENCE AND  
TECHNOLOGY OCCUPATIONS
  - 21     SOCIAL SCIENCE  
OCCUPATIONS
  - 22     RELIGIOUS OBSERVANCE  
OCCUPATIONS
  - 23     TEACHING AND RELATED  
OCCUPATIONS
  - 24     HEALTH OCCUPATIONS
- 3       ARTISTIC, LITERARY AND SPORT  
OCCUPATIONS**
  - 30     ARTISTIC, LITERARY AND  
SPORT OCCUPATIONS
- 4       CLERICAL, SALES AND SERVICE  
OCCUPATIONS**
  - 40     CLERICAL OCCUPATIONS
  - 41     SALES OCCUPATIONS
  - 42     SERVICE OCCUPATIONS
- 5       PRIMARY PRODUCTION  
OCCUPATIONS**
  - 50     AGRICULTURAL  
OCCUPATIONS
  - 51     FISHING AND HUNTING  
OCCUPATIONS

- 52 FORESTRY OCCUPATIONS
- 53 MINING OCCUPATIONS
- 6 MANUFACTURING AND CONSTRUCTION OCCUPATIONS**
  - 60 METAL WORKING OCCUPATIONS
  - 61 ELECTRICAL OCCUPATIONS
  - 62 WOODWORKING OCCUPATIONS
  - 63 CHEMICAL PROCESSING OCCUPATIONS
  - 64 CLAY, GLASS AND STONE WORKING OCCUPATIONS
  - 65 FOOD PROCESSING OCCUPATIONS
  - 66 TEXTILE PROCESSING OCCUPATIONS
  - 67 PRINTING OCCUPATIONS
  - 68 CONSTRUCTION OCCUPATIONS
- 7 TRANSPORT AND MATERIALS HANDLING OCCUPATIONS**
  - 70 TRANSPORT OPERATING OCCUPATIONS
  - 71 MATERIALS HANDLING OCCUPATIONS
- 8 BASIC MANUAL WORKERS**
  - 80 BASIC MANUAL WORKING OCCUPATIONS
- 9 OCCUPATIONS NOT ELSEWHERE CLASSIFIED**
  - 90 OCCUPATIONS NOT ELSEWHERE CLASSIFIED

## LIST OF SUPER, MAJOR, MINOR AND UNIT GROUPS

1	MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	103	MANAGEMENT AND  ADMINISTRATIVE SUPPORT  OCCUPATIONS
		1030	ACCOUNTANTS AND AUDITORS
		1031	ORGANISATION AND METHODS  ANALYSTS
10	MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS		
100	ELECTED AND APPOINTED GOVERNMENT OFFICIALS	1032	PERSONNEL AND RELATED OFFICERS
1000	LEGISLATORS		
1009	OTHER ELECTED AND APPOINTED GOVERNMENT OFFICIALS	1033	PURCHASING OFFICERS AND BUYERS,  EXCEPT WHOLESALE AND RETAIL TRADE
101	POLICY ADVISORY OCCUPATIONS UNIQUE TO GOVERNMENT		
1010	GOVERNMENT POLICY ADVISERS	1034	FINANCE AND INVESTMENT OFFICERS  AND AGENTS
102	MANAGEMENT AND ADMINISTRATIVE OCCUPATIONS		
1020	GENERAL MANAGEMENT OCCUPATIONS	1035	FINANCE AND INVESTMENT SUPPORT  OCCUPATIONS
1021	FINANCIAL MANAGEMENT OCCUPATIONS		
1022	SALES AND MARKETING MANAGEMENT OCCUPATIONS		
1023	PRODUCTION MANAGEMENT OCCUPATIONS	1039	OTHER MANAGEMENT AND  ADMINISTRATIVE SUPPORT  OCCUPATIONS
1024	SUPPLY AND DISTRIBUTION MANAGEMENT OCCUPATIONS		
1025	PERSONNEL AND INDUSTRIAL RELATIONS MANAGEMENT OCCUPATIONS		
1026	DATA PROCESSING MANAGEMENT OCCUPATIONS		
1027	ENGINEERING MANAGEMENT OCCUPATIONS	2	PROFESSIONAL AND
1028	SCIENCE MANAGEMENT OCCUPATIONS		RELATED OCCUPATIONS

## **20 NATURAL SCIENCE AND TECHNOLOGY OCCUPATIONS**

### **200 PHYSICAL SCIENCE OCCUPATIONS**

2000 CHEMISTS

2001 EARTH SCIENTISTS

2002 PHYSICISTS

2003 MATERIALS SCIENTISTS AND METALLURGISTS

2004 PHYSICAL SCIENCE TECHNICAL OFFICERS

2005 PHYSICAL SCIENCE TECHNICIANS

2009 OTHER PHYSICAL SCIENCE OCCUPATIONS

### **201 LIFE SCIENCE OCCUPATIONS**

2010 AGRICULTURAL SCIENTISTS

2011 VETERINARIANS

2012 BIOLOGICAL SCIENTISTS

2013 FORESTERS

2014 LIFE SCIENCE TECHNICAL OFFICERS

2015 LIFE SCIENCE TECHNICIANS

2019 OTHER LIFE SCIENCE OCCUPATIONS

### **202 MATHEMATICIANS AND STATISTICIANS**

2020 MATHEMATICIANS AND STATISTICIANS

### **203 DATA PROCESSING OCCUPATIONS**

2030 DATA PROCESSERS

### **204 ENGINEERING OCCUPATIONS**

2040 CHEMICAL ENGINEERS

2041 CIVIL ENGINEERS

2042 ELECTRICAL ENGINEERS

2043 MECHANICAL ENGINEERS

2044 MATERIALS AND METALLURGICAL ENGINEERS

2045 ENGINEERS (OTHER)

2046 ENGINEERING DRAFTING AND OTHER TECHNICAL OFFICERS

2047 ENGINEERING TECHNICIANS AND DRAFTING ASSISTANTS

2049 OTHER ENGINEERING OCCUPATIONS

## **205 ARCHITECTURE, BUILDING AND SURVEYING OCCUPATIONS**

2050 ARCHITECTURE OCCUPATIONS

2051 BUILDING OCCUPATIONS (PROFESSIONAL)

2052 CARTOGRAPHERS AND SURVEYORS

2053 ARCHITECTURE, BUILDING AND SURVEYING DRAFTING AND OTHER TECHNICAL OFFICERS

2059 OTHER ARCHITECTURE, BUILDING AND SURVEYING OCCUPATIONS

## **21 SOCIAL SCIENCE OCCUPATIONS**

### **210 SOCIAL SCIENCE OCCUPATIONS**

2100 ECONOMISTS AND ECONOMETRICIANS

2101 PSYCHOLOGISTS

2102 URBAN AND REGIONAL PLANNERS

2109 OTHER SOCIAL SCIENTISTS

### **211 SOCIAL WELFARE OCCUPATIONS**

2110 SOCIAL WORKERS

2111 COUNSELLORS, SOCIAL WELFARE

2119 OTHER SOCIAL WELFARE OCCUPATIONS

### **212 LEGAL OCCUPATIONS**

2120 JUDGES, MAGISTRATES AND RELATED OCCUPATIONS

2121 LAWYERS

2129 OTHER LEGAL AND RELATED OCCUPATIONS

### **213 MUSEUM, LIBRARY AND ARCHIVES OCCUPATIONS**

2130 MUSEUM AND ART GALLERY OCCUPATIONS (PROFESSIONAL)

2131 MUSEUM TECHNICIANS

2132 LIBRARIANS (PROFESSIONAL)

2133 LIBRARY TECHNICIANS

2139 OTHER MUSEUM, LIBRARY AND ARCHIVES OCCUPATIONS

## **22 RELIGIOUS OBSERVANCE OCCUPATIONS**

### **220 RELIGIOUS OBSERVANCE OCCUPATIONS**

2200 MINISTERS OF RELIGION

2209 OTHER RELIGIOUS OBSERVANCE  
OCCUPATIONS

## **23 TEACHING AND RELATED OCCUPATIONS**

### **230 SCHOOL TEACHING OCCUPATIONS**

2300 PRE-PRIMARY SCHOOL TEACHERS

2301 PRIMARY SCHOOL TEACHERS

2302 SECONDARY SCHOOL TEACHERS

2303 REMEDIAL AND OTHER SPECIAL  
TEACHERS

### **231 TECHNICAL AND FURTHER EDUCATION TEACHING OCCUPATIONS**

2310 TAFE TEACHERS (EXCEPT TRADE  
TEACHERS)

2311 TAFE TEACHERS (TRADE)

### **232 HIGHER EDUCATION TEACHING AND RELATED OCCUPATIONS**

2320 ACADEMIC TEACHERS AND  
RESEARCHERS, MANAGEMENT AND  
ADMINISTRATION (HIGHER EDUCATION)

2321 ACADEMIC TEACHERS AND  
RESEARCHERS, NATURAL AND APPLIED  
SCIENCES (HIGHER EDUCATION)

2322 ACADEMIC TEACHERS AND  
RESEARCHERS, ENGINEERING, DATA  
PROCESSING AND ARCHITECTURE  
(HIGHER EDUCATION)

2323 ACADEMIC TEACHERS AND  
RESEARCHERS, SOCIAL SCIENCES AND  
HUMANITIES (HIGHER EDUCATION)

2324 ACADEMIC TEACHERS AND  
RESEARCHERS, EDUCATION (HIGHER  
EDUCATION)

2325 ACADEMIC TEACHERS AND  
RESEARCHERS, MEDICINE AND HEALTH  
(HIGHER EDUCATION)

2326 ACADEMIC TEACHERS AND  
RESEARCHERS, ARTISTIC AND LITERARY  
FIELDS (HIGHER EDUCATION)

2327 ACADEMIC RESEARCH ASSISTANTS

2329 OTHER HIGHER EDUCATION TEACHING  
AND RELATED OCCUPATIONS

### **233 TEACHING SERVICES OCCUPATIONS**

2330 SCHOOL TEACHER SERVICES  
OCCUPATIONS

2331 TAFE TEACHER SERVICES OCCUPATIONS

2339 OTHER TEACHING SERVICES  
OCCUPATIONS

## **24 HEALTH OCCUPATIONS**

### **240 HEALTH DIAGNOSING AND/OR TREATING OCCUPATIONS**

2400 NON-SPECIALIST MEDICAL  
PRACTITIONERS

2401 SPECIALIST MEDICAL PRACTITIONERS

2402 DENTAL PRACTITIONERS

2403 DIAGNOSIS AND TREATMENT SUPPORT  
OCCUPATIONS

2404 PARAMEDICAL PRACTITIONERS

2409 OTHER HEALTH DIAGNOSING AND/OR  
TREATING OCCUPATIONS

### **241 OTHER MEDICAL ASSISTING OCCUPATIONS**

2410 NURSING SUPERVISORY OCCUPATIONS

2411 NURSES (GENERAL)

2412 NURSES (SPECIALIST)

2413 NURSES-IN-TRAINING

2414 ENROLLED NURSES

2419 OTHER MEDICAL ASSISTING  
OCCUPATIONS

### **242 MEDICAL SCIENCE OCCUPATIONS**

2420 CLINICAL LABORATORY SCIENTISTS

2421 PHARMACISTS

2422 RADIOGRAPHERS

2423 MEDICAL LABORATORY TECHNICIANS

2429 OTHER MEDICAL SCIENCE OCCUPATIONS

**3 ARTISTIC, LITERARY AND  
SPORT OCCUPATIONS**

**30 ARTISTIC, LITERARY AND  
SPORT OCCUPATIONS**

**300 VISUAL ARTS, CRAFT AND DESIGN  
OCCUPATIONS**

**3000 PAINTERS, SCULPTORS AND RELATED  
OCCUPATIONS**

**3001 DESIGNERS AND ILLUSTRATORS**

**3002 COMMERCIAL ART SUPPORT  
OCCUPATIONS**

**3003 CRAFT OCCUPATIONS**

**3009 OTHER VISUAL ARTS, CRAFT AND DESIGN  
OCCUPATIONS**

**301 WRITING OCCUPATIONS**

**3010 JOURNALISTS**

**3011 AUTHORS AND RELATED OCCUPATIONS**

**3019 OTHER WRITING OCCUPATIONS**

**302 PERFORMING AND AUDIO-VISUAL  
ARTS OCCUPATIONS**

**3020 PERFORMING ARTS DIRECTORS AND  
RELATED OCCUPATIONS**

**3021 ACTORS**

**3022 POPULAR ENTERTAINERS AND STAGE  
PERFORMERS**

**3023 PERFORMING MUSICIANS**

**3024 COMPOSERS AND RELATED  
OCCUPATIONS**

**3025 DANCERS**

**3026 MODELS**

**3027 ANNOUNCERS AND RELATED  
OCCUPATIONS**

**3028 PERFORMING AND AUDIO-VISUAL ARTS  
SUPPORT OCCUPATIONS**

**303 SPORT OCCUPATIONS**

**3030 COACHES, SPORT OCCUPATIONS**

**3031 SPORT OFFICIALS**

**3032 SPORT PROFESSIONALS**

**3039 OTHER SPORT OCCUPATIONS**

**4 CLERICAL, SALES AND  
SERVICE OCCUPATIONS**

**40 CLERICAL OCCUPATIONS**

**400 STENOGRAPHIC AND TYPING  
OCCUPATIONS**

**4000 SUPERVISORS, STENOGRAPHIC AND  
TYPING OCCUPATIONS**

**4001 OFFICE SECRETARIES AND  
STENOGRAPHERS**

**4002 TYPISTS AND TYPIST-CLERKS**

**401 BOOKKEEPING, BANKING AND  
INSURANCE ACCOUNT  
RECORDING OCCUPATIONS**

**4010 SUPERVISORS, BOOKKEEPING, BANKING  
AND INSURANCE ACCOUNT RECORDING  
OCCUPATIONS**

**4011 BOOKKEEPERS AND ACCOUNTING  
CLERKS**

**4012 BANK TELLERS AND CLERKS**

**4013 INSURANCE CLERKS**

**4014 STATISTICAL CLERKS**

**4019 OTHER BOOKKEEPING, BANKING AND  
INSURANCE ACCOUNT RECORDING AND  
RELATED OCCUPATIONS**

**402 BUSINESS MACHINE OPERATING  
OCCUPATIONS**

**4020 SUPERVISORS, BUSINESS MACHINE  
OPERATORS**

**4021 OFFICE BUSINESS MACHINE OPERATORS**

**4022 ELECTRONIC DATA PROCESSING  
EQUIPMENT OPERATORS**

**403 SCHEDULING AND DISPATCHING  
OCCUPATIONS**

**4030 SUPERVISORS, SCHEDULING AND  
DISPATCHING OCCUPATIONS**

**4031 PRODUCTION/SCHEDULING CLERKS**

**4032 SHIPPING, TRANSPORTATION AND  
RECEIVING CLERKS**

**4033 STOCK CLERKS AND RELATED  
OCCUPATIONS**

**4034 WEIGHERS**

<b>404</b>	<b>LIBRARY/FILE CLERKS</b>
<b>4040</b>	<b>SUPERVISORS, LIBRARY/FILE CLERKS</b>
<b>4041</b>	<b>LIBRARY AND FILE CLERKS</b>
<b>4042</b>	<b>CORRESPONDENCE CLERKS</b>
<b>405</b>	<b>RECEPTION/MAIL CLERKS</b>
<b>4050</b>	<b>SUPERVISORS, RECEPTION/MAIL CLERKS</b>
<b>4051</b>	<b>RECEPTIONIST CLERKS</b>
<b>4052</b>	<b>POSTAL SERVICE OCCUPATIONS</b>
<b>4053</b>	<b>TELEPHONISTS AND PHONOGRAM OPERATORS</b>
<b>4054</b>	<b>MESSENGERS</b>
<b>409</b>	<b>OTHER CLERICAL OCCUPATIONS</b>
<b>4090</b>	<b>SUPERVISORS, OTHER CLERICAL OCCUPATIONS</b>
<b>4091</b>	<b>PERSONNEL CLERKS</b>
<b>4092</b>	<b>CLERICAL ASSISTANTS (OTHER)</b>
<b>4099</b>	<b>OTHER CLERICAL AND RELATED OCCUPATIONS</b>

## **41 SALES OCCUPATIONS**

<b>410</b>	<b>SALES SUPERVISION OCCUPATIONS</b>
<b>4100</b>	<b>SUPERVISORS, SALES</b>
<b>411</b>	<b>INSURANCE AND REAL ESTATE OCCUPATIONS</b>
<b>4110</b>	<b>INSURANCE BROKERS AND AGENTS</b>
<b>4111</b>	<b>REAL ESTATE AGENTS AND MANAGERS</b>
<b>412</b>	<b>SALES REPRESENTATIVE OCCUPATIONS</b>
<b>4120</b>	<b>SALES REPRESENTATIVES AND AGENTS (SPECIALIST TECHNICAL PRODUCTS)</b>
<b>4121</b>	<b>SALES REPRESENTATIVES AND AGENTS (SERVICES)</b>
<b>4122</b>	<b>SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS)</b>

## **413 SALESPERSONS AND RELATED OCCUPATIONS**

<b>4130</b>	<b>SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS)</b>
<b>4131</b>	<b>STREET VENDORS, SHOP CANVASSERS AND SALES DRIVERS</b>
<b>4132</b>	<b>SALES ATTENDANTS AND CHECK-OUT OPERATORS</b>
<b>4139</b>	<b>OTHER SALESPERSONS AND RELATED OCCUPATIONS</b>

## **42 SERVICE OCCUPATIONS**

### **420 EXCLUSIVELY MILITARY OCCUPATIONS**

These occupations have not been coded at occupational level in ASCO

### **421 PROTECTIVE AND INVESTIGATIVE OCCUPATIONS**

<b>4210</b>	<b>SUPERVISORS, POLICE OCCUPATIONS</b>
<b>4211</b>	<b>SUPERVISORS, FIRE-FIGHTING OCCUPATIONS</b>
<b>4212</b>	<b>SUPERVISORS, PRISON OFFICERS AND SECURITY GUARD OCCUPATIONS</b>
<b>4213</b>	<b>POLICE OCCUPATIONS</b>
<b>4214</b>	<b>FIRE-FIGHTING OCCUPATIONS</b>
<b>4215</b>	<b>PRISON OFFICER OCCUPATIONS</b>
<b>4216</b>	<b>INVESTIGATORY OCCUPATIONS</b>
<b>4217</b>	<b>GUARDS AND RELATED SECURITY OCCUPATIONS</b>
<b>4219</b>	<b>OTHER PROTECTIVE AND INVESTIGATIVE OCCUPATIONS</b>

### **422 INSPECTORS AND REGULATING OFFICERS**

<b>4220</b>	<b>SUPERVISORS, INSPECTORS AND REGULATING OFFICERS</b>
<b>4221</b>	<b>INSPECTORS AND REGULATING OFFICERS, PRIMARY INDUSTRY AND CONSERVATION</b>
<b>4222</b>	<b>INSPECTORS AND REGULATING OFFICERS, HEALTH, SAFETY AND WORKING CONDITIONS</b>
<b>4223</b>	<b>OTHER INSPECTORS AND REGULATING OFFICERS</b>

**423 FOOD AND BEVERAGE PREPARATION AND RELATED SERVICE OCCUPATIONS**

4230 SUPERVISORS, FOOD AND BEVERAGE PREPARATION AND RELATED SERVICE OCCUPATIONS

4231 COOKING OCCUPATIONS, TRADE

4232 APPRENTICE COOKING OCCUPATIONS

4233 COOKING OCCUPATIONS, NON-TRADE

4234 BEVERAGE PREPARATION AND BAR SERVICE OCCUPATIONS

4235 FOOD AND BEVERAGE SERVING OCCUPATIONS

4239 OTHER FOOD AND BEVERAGE PREPARATION AND RELATED SERVICE OCCUPATIONS

**424 ACCOMMODATION OCCUPATIONS**

4240 SUPERVISORS, ACCOMMODATION AND RELATED OCCUPATIONS

4241 ACCOMMODATION SUPPORT OCCUPATIONS

**425 CLEANING, LAUNDERING AND RELATED OCCUPATIONS**

4250 SUPERVISORS, LAUNDERING, DRY-CLEANING AND RELATED OCCUPATIONS

4251 CLEANING OCCUPATIONS

4252 DRY-CLEANING OCCUPATIONS

4253 DRY-CLEANING APPRENTICE OCCUPATIONS

4254 WASHING AND DRYING MACHINE OCCUPATIONS

4255 PRESSING OCCUPATIONS

4259 OTHER CLEANING, LAUNDERING AND RELATED OCCUPATIONS

**426 HAIRDRESSERS, BEAUTICIANS AND RELATED OCCUPATIONS**

4260 SUPERVISORS, HAIRDRESSERS, BEAUTICIANS AND RELATED OCCUPATIONS

4261 HAIRDRESSING AND RELATED OCCUPATIONS

4262 APPRENTICE HAIRDRESSING OCCUPATIONS

4263 BEAUTICIANS AND RELATED OCCUPATIONS

4264 MASSAGE OCCUPATIONS

4269 OTHER HAIRDRESSERS, BEAUTICIANS AND RELATED OCCUPATIONS

**429 OTHER SERVICE OCCUPATIONS**

4290 FUNERAL SERVICE OCCUPATIONS

4291 CHILD CARE AND RELATED OCCUPATIONS

4292 GUIDE OCCUPATIONS

4293 FRONT-OF-HOUSE ENTERTAINMENT AND RELATED OCCUPATIONS

4294 FLIGHT ATTENDANTS AND RELATED OCCUPATIONS

4295 MARINE/RAIL PORTERS AND STEWARD/ STEWARDESS OCCUPATIONS

4296 COLLECTORS

4297 MUSICAL INSTRUMENT REPAIRING OCCUPATIONS

4299 OTHER SERVICE OCCUPATIONS

## **5 PRIMARY PRODUCTION OCCUPATIONS**

### **50 AGRICULTURAL OCCUPATIONS**

**500 FARMERS AND STOCKOWNERS**

5000 LIVESTOCK FARMERS AND FIELD CROP GROWERS

5001 FRUIT AND VEGETABLE GROWERS

5002 APPRENTICE FARMING OCCUPATIONS

5009 OTHER FARMERS AND STOCKOWNERS

**501 FARM AND RELATED OCCUPATIONS**

5010 FARM OVERSEERS AND RELATED OCCUPATIONS

5011 SHEEP SHEARERS AND WOOL PRESSERS

5012 ANIMAL TRAINING AND RELATED OCCUPATIONS

5013 FARM MACHINERY OPERATORS

5014 FARM HANDS AND ASSISTANTS

5019 OTHER FARM AND RELATED OCCUPATIONS

## 502 AMENITY HORTICULTURAL OCCUPATIONS

5020 SUPERVISORS, AMENITY HORTICULTURE

5021 GARDENERS AND NURSERY MEN/WOMEN

5022 APPRENTICE AMENITY HORTICULTURE  
TRADE OCCUPATIONS

5029 OTHER AMENITY HORTICULTURAL  
OCCUPATIONS

## 51 FISHING AND HUNTING OCCUPATIONS

### 510 FISHING AND HUNTING OCCUPATIONS

5100 MASTER FISHERMEN/WOMEN,  
SEA-GOING FISHING VESSELS

5101 FISHERMEN/WOMEN, DECKHANDS ON  
SEA-GOING FISHING VESSELS

5102 INLAND WATERS AND ESTUARY FISHING  
OCCUPATIONS

5109 OTHER FISHING AND HUNTING  
OCCUPATIONS

## 52 FORESTRY OCCUPATIONS

### 520 FORESTRY OCCUPATIONS

5200 FORESTRY SUPERVISORS

5201 GENERAL FORESTRY WORKING  
OCCUPATIONS

5209 OTHER FORESTRY OCCUPATIONS

### 521 LOGGING OCCUPATIONS

5210 LOGGING SUPERVISORS

5211 TREE FALLERS

5212 LOGGING PLANT OPERATORS

5219 OTHER LOGGING OCCUPATIONS

## 53 MINING OCCUPATIONS

### 530 UNDERGROUND MINING OCCUPATIONS (EXCEPT COAL)

5300 FOREMEN/WOMEN/SUPERVISORS,  
UNDERGROUND MINING (EXCEPT COAL)

5301 ALL-ROUND UNDERGROUND MINING  
OCCUPATIONS (EXCEPT COAL)

5302 DRILL EQUIPMENT OPERATORS,  
UNDERGROUND MINING (EXCEPT COAL)

5303 BLASTING OCCUPATIONS, UNDERGROUND  
MINING (EXCEPT COAL)

5304 EQUIPMENT OPERATORS, UNDERGROUND  
MINING (EXCEPT COAL) (OTHER)

5309 OTHER UNDERGROUND MINING  
OCCUPATIONS (EXCEPT COAL)

### 531 UNDERGROUND COAL MINING OCCUPATIONS

5310 FOREMEN/WOMEN/SUPERVISORS,  
UNDERGROUND COAL MINING

5311 CUTTING AND TRANSPORTING OCCUP-  
ATIONS, UNDERGROUND COAL MINING

5319 OTHER UNDERGROUND COAL MINING  
OCCUPATIONS

### 532 OPEN CUT MINING OCCUPATIONS

5320 FOREMEN/WOMEN/SUPERVISORS, OPEN  
CUT MINING

5321 DRILL EQUIPMENT OPERATORS, OPEN  
CUT MINING

5322 BLASTING OCCUPATIONS, OPEN CUT  
MINING

5323 EXCAVATING AND HAULING  
OCCUPATIONS, OPEN CUT MINING

5324 ASSISTANTS AND TRAINEES, OPEN CUT  
MINING

### 533 FLUIDS AND GAS DRILLING OCCUPATIONS

5330 FOREMEN/WOMEN/SUPERVISORS,  
FLUIDS DRILLING

5331 DRILL EQUIPMENT OPERATORS, FLUIDS  
DRILLING

5332 EQUIPMENT OPERATORS, FLUIDS  
DRILLING (OTHER)

5333 DIVERS (FLUIDS DRILLING)

5334 TRAINEE OCCUPATIONS, FLUIDS  
DRILLING

5335 FLUIDS DRILLING SUPPORT  
OCCUPATIONS

5339 OTHER FLUIDS AND GAS DRILLING  
OCCUPATIONS

534 MINERAL ORE TREATING  
OCCUPATIONS

5340 FOREMEN/WOMEN/SUPERVISORS,  
MINERAL ORE TREATING OCCUPATIONS

5341 CONTROL ROOM OPERATORS, MINERAL  
ORE TREATING

5342 CRUSHING, GRINDING AND SCREENING  
OCCUPATIONS (MINERAL ORES)

5343 WASHING, MIXING, SEPARATING AND  
FILTERING OCCUPATIONS (MINERAL  
ORES)

5344 ROASTING OCCUPATIONS (MINERAL  
ORES)

5345 TESTING AND SAMPLING OCCUPATIONS,  
MINERAL ORE TREATING

5349 OTHER MINERAL ORE TREATING  
OCCUPATIONS

539 OTHER MINING AND RELATED  
OCCUPATIONS

5390 MINE CAGE OPERATING OCCUPATIONS

5391 MINERAL EXPLORATION DRILLING  
OCCUPATIONS

5392 MINERAL EXPLORATION DRILLING  
TRAINEE OCCUPATIONS

5393 MINE SAMPLING OCCUPATIONS

5399 OTHER MINING AND RELATED  
OCCUPATIONS

## **6 MANUFACTURING AND CONSTRUCTION OCCUPATIONS**

## **60 METAL WORKING OCCUPATIONS**

### **600 METAL PROCESSING OCCUPATIONS**

6000 SUPERVISORS/FOREMEN/WOMEN, METAL  
PROCESSING OCCUPATIONS

6001 FURNACE OPERATORS AND SMELT  
HANDS (FERROUS; NON-FERROUS  
METALS)

6002 FURNACE AND ELECTROLYTIC CELL  
ATTENDANTS AND POT OPERATORS

6003 METAL MOULDING AND COREMAKING  
TRADE OCCUPATIONS

6004 PATTERNMAKING TRADE OCCUPATIONS,  
METAL CASTING

6005 MOULDING AND COREMAKING MACHINE  
OPERATORS

6006 METAL CASTING NON-TRADE  
OCCUPATIONS

6007 APPRENTICE FOUNDRY OCCUPATIONS

### **601 METAL FORMING AND TREATING OCCUPATIONS**

6010 SUPERVISORS/FOREMEN/WOMEN METAL  
FORMING AND TREATING OCCUPATIONS

6011 METAL ROLLING MILL OPERATORS

6012 METAL ROLLING MILL ASSISTANTS

6013 METAL EXTRUDING AND DRAWING  
MACHINE OPERATORS

6014 METAL HEAT TREATING OCCUPATIONS

6015 METAL FINISHING TRADE OCCUPATIONS

6016 METAL FINISHING OCCUPATIONS,  
NON-TRADE

6017 APPRENTICE METAL FINISHING  
OCCUPATIONS

6019 OTHER METAL PROCESSING  
OCCUPATIONS

<b>602</b>	<b>METAL MACHINING OCCUPATIONS</b>	<b>605</b>	<b>METAL FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS</b>
<b>6020</b>	<b>SUPERVISORS/FOREMEN/WOMEN, METAL MACHINING OCCUPATIONS</b>	<b>6050</b>	<b>SUPERVISORS/FOREMEN/WOMEN, METAL FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS</b>
<b>6021</b>	<b>TOOLMAKERS</b>	<b>6051</b>	<b>AIRCRAFT GROUND ENGINEERS</b>
<b>6022</b>	<b>MACHINISTS, FIRST CLASS</b>	<b>6052</b>	<b>VEHICLE MECHANICS</b>
<b>6023</b>	<b>FITTERS</b>	<b>6053</b>	<b>PANEL BEATERS</b>
<b>6024</b>	<b>MACHINISTS, SECOND CLASS AND OTHER MACHINE SETTERS</b>	<b>6054</b>	<b>VEHICLE PAINTERS</b>
<b>6025</b>	<b>APPRENTICE METAL MACHINING OCCUPATIONS</b>	<b>6055</b>	<b>VEHICLE BODY MAKING OCCUPATIONS</b>
<b>6029</b>	<b>OTHER METAL MACHINING OCCUPATIONS</b>	<b>6056</b>	<b>APPRENTICE METAL FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS</b>
<b>603/4</b>	<b>METAL SHAPING AND FORMING OCCUPATIONS, EXCEPT MACHINING</b>	<b>6059</b>	<b>OTHER METAL FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS</b>
<b>6030</b>	<b>SUPERVISORS/FOREMEN/WOMEN, METAL SHAPING AND FORMING OCCUPATIONS, EXCEPT MACHINING</b>	<b>606</b>	<b>PRECISION INSTRUMENT, JEWELLERY AND SILVERWARE WORKING OCCUPATIONS</b>
<b>6031</b>	<b>FORGING TRADE OCCUPATIONS</b>	<b>6060</b>	<b>SUPERVISORS/FOREMEN/WOMEN, PRECISION INSTRUMENTS, JEWELLERY AND OTHER METAL PRODUCTS</b>
<b>6032</b>	<b>SHEET METAL TRADE OCCUPATIONS</b>	<b>6061</b>	<b>PRECISION INSTRUMENTS FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS</b>
<b>6033</b>	<b>SHEET METAL NON-TRADE OCCUPATIONS</b>	<b>6062</b>	<b>SPECIALISED FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS</b>
<b>6034</b>	<b>WELDING TRADE OCCUPATIONS</b>	<b>6063</b>	<b>JEWELLERY AND PRECIOUS METALWARE FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING TRADE OCCUPATIONS</b>
<b>6035</b>	<b>WELDING NON-TRADE MACHINE OPERATORS</b>	<b>6064</b>	<b>APPRENTICE PRECISION INSTRUMENTS, JEWELLERY AND OTHER METAL PRODUCTS OCCUPATIONS</b>
<b>6036</b>	<b>MANUAL WELDING AND FLAMECUTTING NON-TRADE OCCUPATIONS</b>	<b>607</b>	<b>INSPECTORS, METAL WORKING OCCUPATIONS</b>
<b>6037</b>	<b>BOILERMAKING AND STRUCTURAL STEEL TRADE OCCUPATIONS</b>	<b>6070</b>	<b>INSPECTORS, METAL PROCESSING, MACHINING, SHAPING AND FORMING</b>
<b>6038</b>	<b>SHIPWRIGHTS, METAL</b>	<b>6071</b>	<b>INSPECTORS, METAL PRODUCTS FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING</b>
<b>6040</b>	<b>METAL SPINNERS</b>		
<b>6041</b>	<b>APPRENTICE METAL SHAPING AND FORMING OCCUPATIONS, EXCEPT MACHINING</b>		
<b>6049</b>	<b>OTHER METAL SHAPING AND FORMING MACHINE OPERATORS</b>		

- 608 PROCESS WORKERS, METAL AND METAL PRODUCTS
- 6080 SUPERVISORS/FOREMEN/WOMEN, PROCESS WORKERS, METAL AND METAL PRODUCTS
- 6081 TRADES ASSISTANTS, METAL AND METAL PRODUCTS
- 6082 PROCESS WORKERS, METAL AND METAL PRODUCTS

## 61 ELECTRICAL OCCUPATIONS

- 610 ELECTRICAL TRADE OCCUPATIONS
- 6100 SUPERVISORS, ELECTRICAL TRADE AND RELATED OCCUPATIONS
- 6101 ELECTRICAL POWERLINE INSTALLATION AND MAINTENANCE OCCUPATIONS
- 6102 ELECTRICAL FITTERS
- 6103 ELECTRICAL MECHANICS
- 6104 AUTOMOTIVE ELECTRICIANS
- 6105 REFRIGERATION AND AIR-CONDITIONING MECHANICS
- 6106 ELECTRICAL TRADE APPRENTICE OCCUPATIONS
- 6109 OTHER ELECTRICAL TRADE OCCUPATIONS
- 611 ELECTRONIC TRADE OCCUPATIONS
- 6110 SUPERVISORS, ELECTRONIC TRADE OCCUPATIONS
- 6111 COMMUNICATIONS EQUIPMENT TRADE OCCUPATIONS
- 6112 RADIO AND TELEVISION SERVICING OCCUPATIONS
- 6113 APPRENTICE RADIO AND TELEVISION MECHANIC OCCUPATIONS
- 6114 TELECOMMUNICATION TRAINEE OCCUPATIONS
- 6119 OTHER ELECTRONIC TRADE OCCUPATIONS
- 619 OTHER ELECTRICAL AND RELATED OCCUPATIONS
- 6190 ELECTRICAL/TELECOMMUNICATION TRADES ASSISTANTS
- 6191 PROCESS WORKERS, ELECTRICAL AND ELECTRONIC EQUIPMENT

## 62 WOODWORKING OCCUPATIONS

- 620 WOOD PROCESSING AND MACHINING OCCUPATIONS
- 6200 FOREMEN/WOMEN, WOOD PROCESSING AND MACHINING OCCUPATIONS
- 6201 WOOD MACHINING AND TURNING TRADE OCCUPATIONS
- 6202 WOOD MACHINING AND TURNING NON-TRADE OCCUPATIONS
- 6203 SAWMILL SAWYERS AND RELATED OCCUPATIONS
- 6204 PLYWOOD AND VENEER MANUFACTURING AND RELATED OCCUPATIONS
- 6205 PARTICLEBOARD AND HARDBOARD MANUFACTURING OCCUPATIONS
- 6206 WOODWORKING MACHINE OPERATORS
- 6207 APPRENTICE WOOD MACHINING AND TURNING OCCUPATIONS
- 6209 OTHER WOOD PROCESSING AND MACHINING OCCUPATIONS
- 621 WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS
- 6210 FOREMEN/WOMEN, WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS
- 6211 CABINET-MAKERS, JOINERS AND RELATED OCCUPATIONS
- 6212 WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING TRADE OCCUPATIONS (OTHER)
- 6213 ASSEMBLERS, WOOD PRODUCTS
- 6214 APPRENTICE WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS
- 6219 OTHER WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS
- 622 PULP, PAPERMAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS
- 6220 FOREMEN/WOMEN, PULP, PAPERMAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS
- 6221 PULP PREPARING OCCUPATIONS
- 6222 PAPERMAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS

## **63 CHEMICAL PROCESSING OCCUPATIONS**

### **630 GENERAL CHEMICAL PROCESSING OCCUPATIONS**

**6300 FOREMEN/WOMEN, GENERAL CHEMICAL  
PROCESSING OCCUPATIONS**

**6301 INSPECTING AND TESTING OCCUPATIONS,  
CHEMICAL PROCESSING**

**6302 PLANT OPERATORS, GENERAL CHEMICAL  
PROCESSING**

**6303 ASSISTANTS, GENERAL CHEMICAL  
PROCESSING AND TESTING**

### **631 PLASTICS PRODUCTION OCCUPATIONS**

**6310 FOREMEN/WOMEN, PLASTICS  
PRODUCTION OCCUPATIONS**

**6311 MACHINE SETTING OCCUPATIONS,  
PLASTICS PRODUCTS**

**6312 PLANT OPERATORS, PLASTICS PRODUCTS**

**6313 PROCESS WORKERS, PLASTICS PRODUCTS**

**6319 OTHER PLASTICS PRODUCTION  
OCCUPATIONS**

### **632 RUBBER PRODUCTION OCCUPATIONS**

**6320 FOREMEN/WOMEN, RUBBER  
PRODUCTION OCCUPATIONS**

**6321 TYRE PRODUCTION OCCUPATIONS**

**6322 RUBBER PRODUCTS OCCUPATIONS  
(EXCEPT TYRES)**

### **633 PHARMACEUTICALS AND TOILETRIES PRODUCTION OCCUPATIONS**

**6330 FOREMEN/WOMEN, PHARMACEUTICALS  
AND TOILETRIES PRODUCTION  
OCCUPATIONS**

**6331 PLANT OPERATORS, PHARMACEUTICALS  
AND TOILETRIES PRODUCTS**

**6332 PROCESS WORKERS, PHARMACEUTICALS  
AND TOILETRIES PRODUCTS**

**6333 ASSISTANT PLANT OPERATORS,  
PHARMACEUTICALS AND TOILETRIES  
PRODUCTS**

## **634 EXPLOSIVES PRODUCTION OCCUPATIONS**

**6340 FOREMEN/WOMEN, EXPLOSIVES  
PRODUCTION OCCUPATIONS**

**6341 PLANT OPERATORS, EXPLOSIVES  
PRODUCTION**

**6342 PROCESS WORKERS, EXPLOSIVES  
PRODUCTION**

**6343 ASSISTANT PLANT OPERATORS,  
EXPLOSIVES PRODUCTION**

## **635 PETROLEUM PRODUCTS PROCESSING OCCUPATIONS**

**6350 FOREMEN/WOMEN, PETROLEUM  
PRODUCTS PROCESSING OCCUPATIONS**

**6351 PLANT OPERATORS, PETROLEUM  
PRODUCTS PROCESSING**

**6352 ASSISTANT PLANT OPERATORS,  
PETROLEUM PRODUCTS PROCESSING**

## **639 OTHER CHEMICAL PROCESSING OCCUPATIONS**

**6390 FOREMEN/WOMEN, INDUSTRIAL AND  
MEDICAL GASES PRODUCTION  
OCCUPATIONS**

**6391 FOREMEN/WOMEN, PHOTOGRAPHIC  
PROCESSING OCCUPATIONS**

**6392 PLANT OPERATORS, INDUSTRIAL AND  
MEDICAL GAS PRODUCTS**

**6393 PROCESS WORKERS, INDUSTRIAL AND  
MEDICAL GAS PRODUCTS**

**6394 PROCESS WORKERS, PHOTOGRAPHIC  
PRODUCTS**

**6399 OTHER CHEMICAL PROCESSING  
OCCUPATIONS**

**64 CLAY, GLASS AND STONE  
WORKING OCCUPATIONS**

- 640 CLAY AND STONE WORKING  
OCCUPATIONS**
- 6400 SUPERVISORS/FOREMEN/WOMEN, CLAY  
AND STONE WORKING OCCUPATIONS
- 6401 STONWORKING TRADE OCCUPATIONS
- 6402 APPRENTICE CLAY AND STONE WORKING  
OCCUPATIONS
- 6403 KILN OPERATORS, CLAY AND STONE  
PRODUCTS
- 6404 PRODUCTION AND FORMING MACHINE  
OPERATORS, CLAY AND STONE  
PRODUCTS
- 6405 INSPECTING, TESTING AND GRADING  
OCCUPATIONS, CLAY AND STONE  
PRODUCTS
- 6406 PRODUCTION AND FORMING MACHINE  
OPERATORS, CLAY AND STONE  
PRODUCTS (OTHER)
- 6407 BASIC PROCESSING OCCUPATIONS, CLAY  
AND STONE PRODUCTS
- 641 GLASSWORKING OCCUPATIONS**
- 6410 SUPERVISORS/FOREMEN/WOMEN, GLASS  
OCCUPATIONS
- 6411 INDUSTRIAL GLASS BLOWING  
OCCUPATIONS
- 6412 OPTICAL INSTRUMENTS AND  
OPHTHALMIC MECHANICS TRADE  
OCCUPATIONS
- 6413 GLASS TRADE OCCUPATIONS
- 6414 APPRENTICE GLASS PRODUCTS  
OCCUPATIONS
- 6415 TRAINEE OCCUPATIONS, GLASS  
PRODUCTS
- 6416 INSPECTING, TESTING AND GRADING  
OCCUPATIONS, GLASS PRODUCTS
- 6417 GLASS MACHINING OCCUPATIONS
- 6419 OTHER GLASSWORKING OCCUPATIONS

**65 FOOD PROCESSING  
OCCUPATIONS**

- 650 GENERAL FOOD AND BEVERAGE  
PROCESSING OCCUPATIONS**
- 6500 SUPERVISORS, GENERAL FOOD AND  
BEVERAGE PROCESSING OCCUPATIONS
- 6501 CONFECTIONERY TRADE OCCUPATIONS
- 6502 APPRENTICE CONFECTIONERY TRADE  
OCCUPATIONS
- 6503 BEVERAGE PROCESSING AND RELATED  
OCCUPATIONS (NON-DAIRY)
- 6504 GENERAL FOOD PROCESSING MACHINE  
OPERATORS
- 6505 FOOD PROCESSING AND RELATED  
QUALITY CONTROL OCCUPATIONS
- 6509 OTHER GENERAL FOOD AND BEVERAGE  
PROCESSING OCCUPATIONS
- 651 MEAT PROCESSING OCCUPATIONS**
- 6510 SUPERVISORS, MEAT AND RELATED  
PROCESSING OCCUPATIONS
- 6511 MEAT TRADE AND RELATED  
OCCUPATIONS
- 6512 APPRENTICE MEAT TRADE OCCUPATIONS
- 6513 MEAT PROCESSING MACHINE  
OPERATORS
- 6514 BASIC PROCESSING OCCUPATIONS, MEAT  
PRODUCTS
- 652 FIELD CROPS PRODUCT  
PROCESSING OCCUPATIONS**
- 6520 SUPERVISORS, FIELD CROPS PRODUCT  
PROCESSING OCCUPATIONS
- 6521 BREADMAKING, MILLING AND  
PASTRYCOOKING TRADE AND RELATED  
OCCUPATIONS
- 6522 APPRENTICE BREADMAKING, MILLING  
AND PASTRYCOOKING TRADE  
OCCUPATIONS
- 6523 BREADMAKING AND PASTRYCOOKING  
ASSISTANT OCCUPATIONS
- 6524 FIELD CROPS PRODUCT PROCESSING  
MACHINE OPERATORS
- 6525 BASIC FIELD CROPS PRODUCT  
PROCESSING OCCUPATIONS

**653 DAIRY PRODUCT PROCESSING OCCUPATIONS**

**6530 SUPERVISORS, DAIRY PRODUCT PROCESSING OCCUPATIONS**

**6531 DAIRY TRADE AND RELATED OCCUPATIONS**

**6532 APPRENTICE DAIRY TRADE OCCUPATIONS**

**6533 DAIRY PRODUCT PROCESSING MACHINE OPERATORS**

**6534 BASIC DAIRY PRODUCT PROCESSING OCCUPATIONS**

**654 FRUIT AND VEGETABLE PROCESSING OCCUPATIONS**

**6540 SUPERVISORS, FRUIT AND VEGETABLE PROCESSING OCCUPATIONS**

**6541 FRUIT AND VEGETABLE PROCESSING MACHINE OPERATORS**

**6542 BASIC FRUIT AND VEGETABLE PROCESSING OCCUPATIONS**

**66 TEXTILE PROCESSING OCCUPATIONS**

**660 YARN AND FABRIC PRODUCTION OCCUPATIONS**

**6601 TEXTILE MECHANICS, YARN AND FABRIC**

**6602 TEXTILE MECHANICS, YARN AND FABRIC APPRENTICE OCCUPATIONS**

**6603 LEATHER, FUR AND FIBRE CLASSING AND GRADING OCCUPATIONS**

**6604 LEATHER AND YARN MACHINE OPERATING OCCUPATIONS**

**6605 FABRIC MACHINE OPERATING OCCUPATIONS**

**6606 YARN AND FABRIC MACHINE OPERATING OCCUPATIONS (OTHER)**

**6609 OTHER YARN AND FABRIC OCCUPATIONS**

**661 TEXTILE FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS**

**6610 FOREMEN/WOMEN, TEXTILE FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS**

**6611 TAILORS**

**6612 GARMENT MAKING OCCUPATIONS, EXCEPT TAILORS**

**6613 FURRIERS**

**6614 UPHOLSTERERS, BEDDING AND MATTRESS MAKERS**

**6615 LEATHER AND CANVAS GOODS MAKERS**

**6616 TEXTILE FABRICATING, ASSEMBLING AND REPAIRING APPRENTICE OCCUPATIONS**

**6619 OTHER TEXTILE FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS**

**662 SHOEMAKING AND REPAIRING OCCUPATIONS**

**6620 FOREMEN/WOMEN, SHOEMAKING AND REPAIRING OCCUPATIONS**

**6621 SHOEMAKING AND REPAIRING TRADE OCCUPATIONS**

**6622 APPRENTICE SHOEMAKING OCCUPATIONS**

**6623 SHOEMAKING PRODUCTION PROCESS WORKERS**

**67 PRINTING OCCUPATIONS**

**670 COMPOSITION AND GRAPHIC REPRODUCTION OCCUPATIONS**

6700 SUPERVISORS, COMPOSITION AND GRAPHIC REPRODUCTION OCCUPATIONS

6701 COMPOSITION TRADE OCCUPATIONS

6702 GRAPHIC REPRODUCTION TRADE OCCUPATIONS

6703 COMPOSITION AND GRAPHIC REPRODUCTION OCCUPATIONS (OTHER)

6704 APPRENTICE COMPOSITION AND GRAPHIC REPRODUCTION OCCUPATIONS

**671 PRINTING MACHINING OCCUPATIONS**

6710 SUPERVISORS, PRINTING MACHINE OCCUPATIONS

6711 LETTERPRESS PRINTING MACHINING TRADE OCCUPATIONS

6712 LITHOGRAPHIC PRINTING MACHINING TRADE OCCUPATIONS

6713 FLEXOGRAPHIC AND/OR GRAVURE PRINTING MACHINING TRADE OCCUPATIONS

6714 PRINTING MACHINING NON-TRADE OCCUPATIONS

6715 APPRENTICE PRINTING MACHINING OCCUPATIONS

**672 PRINTING OCCUPATIONS (OTHER)**

6720 SUPERVISORS, PRINTING OCCUPATIONS (OTHER)

6721 PRINTING TRADE OCCUPATIONS (OTHER)

6722 APPRENTICE PRINTING OCCUPATIONS (OTHER)

6729 OTHER PRINTING NON-TRADE OCCUPATIONS

**68 CONSTRUCTION OCCUPATIONS**

**680 EARTHMOVING, PAVING AND RAILWAY CONSTRUCTION PLANT OPERATING OCCUPATIONS**

6800 FOREMEN/WOMEN, EARTHMOVING, PAVING AND RAILWAY CONSTRUCTION PLANT OPERATING OCCUPATIONS

6801 MECHANICAL EARTHMOVING PLANT OPERATING OCCUPATIONS

6802 PAVING AND SURFACING PLANT OPERATING OCCUPATIONS

6803 RAILWAY TRACK CONSTRUCTION OCCUPATIONS

**681 CONSTRUCTION TRADE OCCUPATIONS**

6810 FOREMEN/WOMEN, CONSTRUCTION TRADE OCCUPATIONS

6811 BRICKLAYERS

6812 CARPENTRY OCCUPATIONS

6813 CARPET LAYERS

6814 PAINTING, DECORATING AND SIGNWRITING OCCUPATIONS

6815 PLASTERERS

6816 PLUMBING OCCUPATIONS

6817 TILERS

6818 CONSTRUCTION TRADE APPRENTICE OCCUPATIONS

**689 OTHER CONSTRUCTION OCCUPATIONS**

6890 SPECIALIST NON-TRADE CONSTRUCTION OCCUPATIONS

6891 BUILDERS' LABOURERS

6892 BUILDING SERVICE OCCUPATIONS

6893 MARINE CONSTRUCTION OCCUPATIONS

**7 TRANSPORT AND MATERIALS HANDLING OCCUPATIONS**

**70      TRANSPORT OPERATING  
OCCUPATIONS**

**700     AIR TRANSPORT OPERATING  
OCCUPATIONS**

**7000    AIRWAYS SURVEYORS AND EXAMINERS  
OF AIRCREW**

**7001    AIR PILOTS AND FLIGHT INSTRUCTORS**

**7002    AIR TRANSPORT OPERATING SUPPORT  
OCCUPATIONS**

**7009    OTHER AIR TRANSPORT OPERATING  
OCCUPATIONS**

**701     WATER TRANSPORT OPERATING  
OCCUPATIONS**

**7010    MARINE SUPERINTENDENTS AND  
SURVEYORS**

**7011    SHIP'S PILOTS AND DECK OFFICERS**

**7012    BOATSWAINS**

**7013    DECKHANDS**

**7014    MARINE ENGINE AND BOILER-ROOM  
OCCUPATIONS**

**7015    TRAINEE OCCUPATIONS, WATER  
TRANSPORT**

**7019    OTHER WATER TRANSPORT OPERATING  
OCCUPATIONS**

**702     RAILWAY TRANSPORT  
OPERATING OCCUPATIONS**

**7020    SUPERVISORS, RAILWAY TRANSPORT**

**7021    LOCOMOTIVE DRIVING OCCUPATIONS**

**7029    OTHER RAILWAY TRANSPORT  
OPERATING OCCUPATIONS**

**703     ROAD TRANSPORT OPERATING  
OCCUPATIONS**

**7030    BUS, TRAM AND TRUCK DRIVERS**

**7031    AUTOMOBILE DRIVERS**

**7039    OTHER ROAD TRANSPORT OPERATING  
OCCUPATIONS**

**71      MATERIALS HANDLING  
OCCUPATIONS**

**710     HOISTING OCCUPATIONS**

**7100    FOREMEN/WOMEN, HOISTING  
OCCUPATIONS**

**7101    CRANE DRIVERS**

**7102    HOIST AND WINCH OPERATORS**

**7103    RIGGERS**

**7104    DOGMEN/WOMEN, CRANE CHASERS AND  
SLINGING OCCUPATIONS**

**711     BULK MATERIALS AND FLUIDS  
HANDLING OCCUPATIONS**

**7110    SUPERVISORS/FOREMEN/WOMEN, BULK  
MATERIALS AND FLUIDS HANDLING  
OCCUPATIONS**

**7111    BULK SHIP AND TRAIN LOADING/  
UNLOADING, RECLAIMING AND  
STACKING EQUIPMENT OPERATORS**

**7112    BULK FLUIDS HANDLING OCCUPATIONS**

**7119    OTHER BULK MATERIALS AND FLUIDS  
HANDLING OCCUPATIONS**

**712     STORES AND PACKAGING  
OCCUPATIONS**

**7120    FOREMEN/WOMEN, STORES AND  
PACKAGING OCCUPATIONS**

**7121    STOREMEN/WOMEN AND RELATED  
OCCUPATIONS**

**7122    MACHINE PACKAGING OCCUPATIONS**

**7123    NON-MACHINE PACKAGING  
OCCUPATIONS**

**719     OTHER MATERIALS HANDLING  
OCCUPATIONS**

**7190    FOREMEN/WOMEN, OTHER MATERIALS  
HANDLING OCCUPATIONS**

**7191    FREIGHT HANDLING OCCUPATIONS**

**7192    FURNITURE REMOVALISTS**

**7193    FORK LIFT DRIVERS**

**7199    OTHER MATERIALS HANDLING  
OCCUPATIONS**

**8       BASIC MANUAL WORKERS**

**80 BASIC MANUAL WORKING  
OCCUPATIONS****800 CONSTRUCTION AND  
COMMUNICATIONS LABOURERS****8000 CONSTRUCTION AND COMMUNICATIONS  
LABOURERS****801 MINE LABOURERS****8010 MINE LABOURERS****802 FACTORY HANDS/LABOURERS****8020 FACTORY HANDS/LABOURERS****803 AGRICULTURAL AND FORESTRY  
LABOURERS****8030 AGRICULTURAL LABOURERS****8031 FORESTRY LABOURERS****809 OTHER BASIC MANUAL WORKING  
OCCUPATIONS****8090 OTHER BASIC MANUAL WORKING  
OCCUPATIONS****9009 OTHER UTILITIES EQUIPMENT AND  
STATIONARY ENGINE OPERATING  
OCCUPATIONS****901 ELECTRONIC AND  
COMMUNICATIONS EQUIPMENT  
OPERATING OCCUPATIONS****9010 SUPERVISORS, ELECTRONIC AND  
COMMUNICATIONS EQUIPMENT  
OPERATING OCCUPATIONS****9011 RADIO AND TELEGRAPH OPERATORS****9012 MOTION PICTURE PROJECTIONISTS****9013 PERFORMING AND AUDIO-VISUAL ARTS  
EQUIPMENT OPERATORS****9019 OTHER ELECTRONIC AND  
COMMUNICATIONS EQUIPMENT  
OPERATING OCCUPATIONS****9 OCCUPATIONS NOT  
ELSEWHERE CLASSIFIED****90 OCCUPATIONS NOT  
ELSEWHERE CLASSIFIED****900 UTILITIES EQUIPMENT AND  
STATIONARY ENGINE OPERATING  
OCCUPATIONS****9000 SUPERVISORS, ELECTRICITY  
GENERATION AND DISTRIBUTION****9001 ELECTRICAL GENERATION AND  
DISTRIBUTION OCCUPATIONS****9002 RELATED ELECTRICAL GENERATION AND  
DISTRIBUTION OCCUPATIONS****9003 WATER SUPPLY EQUIPMENT OPERATING  
OCCUPATIONS****9004 WASTE DISPOSAL EQUIPMENT  
OPERATING OCCUPATIONS****9005 STATIONARY ENGINE OPERATING  
OCCUPATIONS****9006 GAS RETICULATION OCCUPATIONS**

# **SUPER GROUP 1**

## **Managerial and Administrative Occupations**

Managerial and Administrative Occupations are classified in the following major group.

10    Managerial and Administrative Occupations

## **MAJOR GROUP 10**

### **MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS**

Managerial and Administrative Occupations are classified in the following minor groups.

- 100 Elected and Appointed Government Officials
- 101 Policy Advisory Occupations Unique to Government
- 102 Management and Administrative Occupations
- 103 Management and Administrative Support Occupations

Excluded from this major group are the following: working proprietors and managing supervisors of wholesale and retail businesses, which are classified in Major Group 41 SALES OCCUPATIONS; working proprietors and managing supervisors of catering and lodging establishments, which are classified in Major Group 42 SERVICE OCCUPATIONS; supervisors of operational workers in the protective services such as police and fire services, which are classified with the workers they supervise in Minor Group 421 PROTECTIVE AND INVESTIGATIVE OCCUPATIONS; and farmers and farm managers, which are classified in Major Group 50 AGRICULTURAL OCCUPATIONS.

# 10 MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS

## 100 ELECTED AND APPOINTED GOVERNMENT OFFICIALS

### 1000 LEGISLATORS

1000-A Member of Parliament

### 1009 OTHER ELECTED AND APPOINTED GOVERNMENT OFFICIALS

1009-Z Elected and Appointed Government Officials nec

## 101 POLICY ADVISORY OCCUPATIONS UNIQUE TO GOVERNMENT

### 1010 GOVERNMENT POLICY ADVISERS

1010-A Government Policy Adviser (Senior Level)

1010-B Government Policy Adviser (Middle Level)

1010-C Government Policy Adviser (Lower Level)

## 102 MANAGEMENT AND ADMINISTRATIVE OCCUPATIONS

### 1020 GENERAL MANAGEMENT OCCUPATIONS

1020-A General Manager (Upper Level)

1020-B General Manager (Middle Level)

1020-C General Manager (Lower Level)

### 1021 FINANCIAL MANAGEMENT OCCUPATIONS

1021-A Financial Manager (Senior Level)

1021-B Financial Manager (Middle Level)

1021-C Financial Manager (Lower Level)

### 1022 SALES AND MARKETING MANAGEMENT OCCUPATIONS

1022-A Sales and Marketing Manager (Senior Level)

1022-B Sales and Marketing Manager (Middle Level)

1022-C Sales and Marketing Manager (Lower Level)

### 1023 PRODUCTION MANAGEMENT OCCUPATIONS

1023-A Production Manager (Senior Level)

1023-B Production Manager (Middle Level)

1023-C Production Manager (Lower Level)

### 1024 SUPPLY AND DISTRIBUTION MANAGEMENT OCCUPATIONS

1024-A Supply and Distribution Manager (Senior Level)

1024-B Supply and Distribution Manager (Middle Level)

1024-C Supply and Distribution Manager (Lower Level)

### 1025 PERSONNEL AND INDUSTRIAL RELATIONS MANAGEMENT OCCUPATIONS

1025-A Personnel and Industrial Relations Manager (Senior Level)

1025-B Personnel and Industrial Relations Manager (Middle Level)

1025-C Personnel and Industrial Relations Manager (Lower Level)

### 1026 DATA PROCESSING MANAGEMENT OCCUPATIONS

1026-A Electronic Data Processing Manager (Senior Level)

1026-B Electronic Data Processing Manager (Middle Level)

1026-C Electronic Data Processing Manager (Lower Level)

### 1027 ENGINEERING MANAGEMENT OCCUPATIONS

1027-A Engineering Manager (Senior Level)

1027-B Engineering Manager (Middle Level)

1027-C Engineering Manager (Lower Level)

### 1028 SCIENCE MANAGEMENT OCCUPATIONS

1028-A Science Manager (Senior Level)

1028-B Science Manager (Middle Level)

1028-C Science Manager (Lower Level)

## 103 MANAGEMENT AND ADMINISTRATIVE SUPPORT OCCUPATIONS

### 1030 ACCOUNTANTS AND AUDITORS

1030-A Accountant (General)

1030-B Cost Accountant

1030-C Financial Accountant

1030-D Auditor

1030-E Bursar

1030-Z Accountants and Auditors nec

### 1031 ORGANISATION AND METHODS ANALYSTS

1031-A Methods and Procedures Analyst

1031-B Organisational Analyst

1031-C Record Systems Analyst

1031-D Work Study Officer

### 1032 PERSONNEL AND RELATED OFFICERS

1032-A Personnel Officer

1032-B Training Officer

1032-C Staff Development Officer

1032-D Industrial Relations Officer

1032-E Employment Officer

### 1033 PURCHASING OFFICERS AND BUYERS, EXCEPT WHOLESALE AND RETAIL TRADE

1033-A Purchasing Officer (Business Services)

1033-B Purchasing Officer (Food and Related Products)

1033-C Purchasing Officer (Material)

### 1034 FINANCE AND INVESTMENT OFFICERS AND AGENTS

1034-A Corporate Finance Officer

1034-B Investment Adviser/Dealer

1034-C Securities Dealer

1034-D Dealer, Money Market

1034-E Trust Officer

1034-F Properties Investment Manager

1034-G Dealer (General Commodities)

### 1035 FINANCE AND INVESTMENT SUPPORT OCCUPATIONS

1035-A Branch Accountant (Financial Institution)

1035-B Credit Officer

1035-Z Finance and Investment Support Occupations nec

### 1039 OTHER MANAGEMENT AND ADMINISTRATIVE SUPPORT OCCUPATIONS

1039-A Public Relations Officer

1039-B Research Officer

1039-C Union Organiser

1039-D Theatrical Agent

1039-E Fund-Raising Consultant

1039-F Trading Floor Operator (Stockbroking)

1039-G Medical Record Administrator

1039-H Administrative Officer

1039-I Forms Analyst and Designer

1039-J Trainee Manager

1039-Z Management and Administrative Support Occupations nec

**MINOR GROUP 100**  
**ELECTED AND APPOINTED GOVERNMENT OFFICIALS**

Elected and Appointed Government Officials are classified in the following unit groups.

- 1000 Legislators
- 1009 Other Elected and Appointed Government Officials

**1000 LEGISLATORS**

This unit group covers occupations concerned with developing laws, rules and regulations for society.

**Entry Requirements** election and, in some cases, appointment.

**Activities include** participating in, or exercising the executive power of legislation bodies of federal and State governments, working within the constitutional framework which specifies their authority and area of jurisdiction.

**1000-A MEMBER OF PARLIAMENT**

Participates, at federal or State level, in parliamentary activities as the elected member for a parliamentary constituency.

Assists in the moulding of government policy and the making, amending and repealing of legislation by speaking in debates, acting as a member of parliamentary committees and voting for or against specific motions put before the House. Investigates matters of concern to the general public or to particular persons or groups. Tables questions to ministers, introduces proposals for remedial action and otherwise endeavours to serve public and electoral interests.

May be designated according to post held or function performed within particular level of government, e.g.

- Leader of the Opposition
- Member of the House of Representatives
- Member of the Legislative Assembly
- Member of the Legislative Council
- President of the Senate
- Senator
- Speaker

May formulate the overall policy to be followed by a

government department in accordance with general government policy, direct high level administrators in the implementation of that policy, speak for his/her department in Parliament and elsewhere and be designated according to level of responsibility and jurisdiction, e.g.

- Deputy Premier
- Premier
- State Minister
- Federal Minister; Commonwealth Minister
- Deputy Prime Minister
- Prime Minister
- Treasurer, Government

**Job Content Factors**

<i>Workers</i>	
FP: GE NFR	IP:
HC: EIC	RQ: P2 U1 D1 V1
<i>Materials</i>	
SM: D2 I2 P1 T2	EQ:
<i>Functions</i>	
MA: I1 A1 P2 D2 R1 M1 L3	
PA: S1 W2 E1	SA: L1 I1 T2 M1 R1-4
<i>Context</i>	
EC: M1 L1	TC: A2 I1 T1
SS: 10	SC: 12 (vy)
LMS: 700 (0 %SE)	ASIC: 7111,7112

**1009 OTHER ELECTED AND APPOINTED GOVERNMENT OFFICIALS**

This residual unit group covers elected and appointed government and related officials not elsewhere classified in Minor Group 100.

**1009-Z        ELECTED AND APPOINTED  
               GOVERNMENT OFFICIALS nec**

This residual group covers elected and appointed government and related officials not elsewhere classified in Minor Group 100, e.g.

Governor-General  
Justice of the High Court  
Justice of the Supreme Court  
Ombudsman/woman  
State Governor

## MINOR GROUP 101

### POLICY ADVISORY OCCUPATIONS UNIQUE TO GOVERNMENT

Policy Advisory Occupations Unique to Government are classified in the following unit group.

1010 Government Policy Advisers

#### 1010 GOVERNMENT POLICY ADVISERS

This unit group covers occupations concerned with overall management and policy advisory activities unique to government.

**Entry Requirements** normally at least 10 years' experience, often supplemented by a degree/diploma in a discipline such as economics, accounting, engineering, science, law and medicine, and, in some cases, a higher degree or additional training in management or a related area.

**Activities include** performing duties as described under Master Titles GENERAL MANAGER and MANAGER.

#### 1010-A GOVERNMENT POLICY ADVISER (SENIOR LEVEL)

Plans, organises, directs and controls, through subordinate senior government executives, the policy and research activities of a ministry or federal or State government department.

Performs some or all of the duties as described under Master Title GENERAL MANAGER. Advises minister and government chief executives on, and assists in the formulation of, policy and research activities of a ministry or department of state. Directs policy and operations either independently or in consultation with other senior level government policy advisers. Persons in this occupation normally equate with First Division and senior Second Division officers in the Commonwealth Public Service.

Specialises in managing a particular type of government organisation and is designated accordingly, e.g.

Deputy Secretary (Government Department)  
Director-General (State Government Department)  
National Director (Government Agency)  
Permanent Head (Government Department)  
Secretary (Federal Government Department)

##### Job Content Factors

###### Workers

FP: GE12y PSP3-6y(D) / (HD)	IP: E10-20y
or FP: GE12y	IP: E10-20y
HC: ESC	RQ: U1 D1 V1

###### Materials

SM: D2 I2 P2 T1	EQ:
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###### Functions

MA: I2 A1 P1 D1 R1 M1 L3	SA: L1 I1 P2 T1 R1
PA: S1 E1	

###### Context

EC: M1 L1	TC: A1 I1 T1
SS: I1	SC: I2 (vy)

LMS: 5500 (0 %SE)

ASIC: 711,720

#### 1010-B GOVERNMENT POLICY ADVISER (MIDDLE LEVEL)

Plans, organises, directs and controls, through subordinate government executives, the policy activities of a federal or State or local government department.

Performs some or all of the duties as described under Master Title MANAGER. Advises senior government executives including senior level government policy advisers and assists in the formulation of policy and research activities of a department of state. Directs federal, State or local government department policy with some degree of independence, although usually in consultation with senior officers. Persons in this occupation normally equate to the lower levels of the Second Division in the Commonwealth Public Service.

May be designated according to post held, e.g.

Assistant Secretary (Government Department)  
First Assistant Secretary (Government Department)

##### Job Content Factors

###### Workers

FP: GE12y PSP3-6y(D) / (HD)	IP: E10-15y
or FP: GE12y	IP: E10-15y
HC: ESC	RQ: U2 D1 V1

###### Materials

SM: D2 I2 P2 T1	EQ:
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###### Functions

MA: A1 P1 D2 R2 M2 L3	SA: L1 I1 P2 M1 R2-4
PA: S1 E1	

###### Context

EC: M2 L1	TC: A1 I1 T2
SS: I1	SC: I2 (vy)

LMS: 10000 (0 %SE)

ASIC: 711,720

#### 1010-C GOVERNMENT POLICY ADVISER (LOWER LEVEL)

Plans, organises, directs and controls, through subordinate officers, the policy activities of a federal, State or local government department.

Performs some or all of the duties as described under Master Title MANAGER. Advises middle level government policy advisers on, and assists in, the formulation of policy activities of a department of state. Directs and controls the day-to-day operations of a section or branch of a government department and has overall accountability for either all or a substantial part of the policy and planning operations. Persons in this occupation normally equate to Class 9-11 in the Commonwealth Public Service.

- May be designated according to post held, e.g.
- Director (Government Function)
  - Executive Officer (Public Service)
  - Principal Executive Officer (Public Service)
  - Section Head (Public Service)
  - Senior Executive Officer (Public Service)

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP3-6y(D) / (HD)	IP: E10y
or FP: GE12y	IP: E10y
HC: CSE	RQ: U2 D1 V1
<i>Materials</i>	
SM: D2 I2 P2 T1	EQ:
<i>Functions</i>	
MA: A2 P2 D2 R2 M3 L3	
PA: S1 E1	SA: S2 L1 I2 B1 R2-4
<i>Context</i>	
EC: L1	TC: A1 T2
SS: 10	SC: 10 (vy)
LMS: 15000 (0 %SE)	ASIC: 711,720

## MINOR GROUP 102 MANAGEMENT AND ADMINISTRATIVE OCCUPATIONS

Management and Administrative Occupations are classified in the following unit groups.

- |      |   |
|------|---|
| 1020 | General Management Occupations                            |
| 1021 | Financial Management Occupations                          |
| 1022 | Sales and Marketing Management Occupations                |
| 1023 | Production Management Occupations                         |
| 1024 | Supply and Distribution Management Occupations            |
| 1025 | Personnel and Industrial Relations Management Occupations |
| 1026 | Data Processing Management Occupations                    |
| 1027 | Engineering Management Occupations                        |
| 1028 | Science Management Occupations                            |

### 1020 GENERAL MANAGEMENT OCCUPATIONS

This unit group covers occupations concerned with general management of government, industrial, commercial, financial and other business organisations including semi-government businesses such as Telecom and Australia Post, and involving functions such as planning, the development and review of policy, in addition to direction and control through subordinate management.

**Entry Requirements** in most cases, a degree/diploma/para-professional certificate in a field such as economics, accounting, engineering, science, law and medicine, often supplemented by a higher degree or additional training in management or a related area, plus at least 5-10 years' experience.

**Activities include** performing duties as described under Master Title GENERAL MANAGER.

The following titles are illustrative of those used for occupations in this unit group:

- |   |   |
|---|---|
| Academic Registrar                            | Area Manager                                  |
| Assistant Dean (Educational Institution)      | Assistant Principal (Educational Institution) |
| Assistant Registrar (Educational Institution) | Branch Manager                                |
| Builder (Non-Professional)                    | Chairman/woman                                |
| Chief Executive                               | Chief Executive, Regional/Country Hospital    |
| Chief Librarian                               | Company Manager                               |
| Curator, Museum                               | Curator, Zoo                                  |
| Dean (University)                             | Deputy Director (Educational Institution)     |
| Deputy Principal (Educational Institution)    | Deputy Vice-Chancellor                        |
| Director                                      | Director, Computer Centre                     |
| Director (Educational Institution)            | Director, Gallery                             |
| Director-General                              | Director, Health Centre                       |
| Director, Media Centre                        | Director, Medical Administration              |
| Director, Medical Services                    | Director, National Museums                    |
| Director of Nursing                           | Director of Prisons                           |
| Divisional General Manager                    | Divisional Manager                            |
| Editor-in-Chief                               | Executive Director                            |
| Faculty Head                                  | Faculty Secretary                             |
| Group General Manager                         | Head of School (Educational Institution)      |
| Manager, Amenity Horticulture                 | Managing Director                             |
| Medical Superintendent                        | National Gallery Manager                      |

Principal (Educational Institution)  
Principal Scientist  
Registrar (Educational Institution)  
Sports Centre Co-ordinator  
Town Clerk  
Vice Principal (Educational Institution)

Principal Librarian  
Regional Manager  
Shire Clerk  
State Manager  
Vice-Chancellor

#### 1020-A GENERAL MANAGER (UPPER LEVEL)

Directs planning and policy development activities of a major substantial organisation, providing leadership and overall guidance in both its administration and operation.

Performs some or all of the duties described under Master Title GENERAL MANAGER. Directs organisation policy and operations either independently or in consultation with the board of directors, minister or aldermen/women.

##### Job Content Factors

###### Workers

FP: GE12y PSP3-6y(Dip) / (HD) IP: E15y  
or FP: GE10-12y IP: E15y  
HC: ESC RQ: U1 D1 V1

###### Materials

SM: D2 I2 P1 T2 EQ:

###### Functions

MA: I2 A1 P1 D1 R1 M1 L2  
PA: S1 E1 SA: S2 L1 I1 P2 T1 R1

###### Context

EC: M2 L1 TC: A1 I1 T1  
SS: I2 SC: I2 (vy)

LMS: 10000 (0 %SE)

ASIC: Many

#### 1020-B GENERAL MANAGER (MIDDLE LEVEL)

Plans, organises, directs and controls, through subordinate managers, the activities of a medium-sized company, small group of companies or diversified division within such a company or group of companies and/or a medium-sized statutory authority, government department or local government.

Performs some or all of the duties described under Master Title GENERAL MANAGER. Directs company, department or statutory authority policy and operations with a significant degree of independence, though in the majority of cases would consult with the board of directors, minister or permanent head of government department, mayor or managing director of a major group or local board as applicable.

##### Job Content Factors

###### Workers

FP: GE12y PSP3-6y(Dip) / (HD) IP: E10-15y  
or FP: GE10-12y IP: E10-15y  
HC: ESC RQ: U1 D1 V1

###### Materials

SM: D2 I2 P1 T2 EQ:

##### Functions

MA: I2 A1 P1 D1 R1 M1 L2  
PA: S1 E1 SA: S2 L1 I1 P2 M1 R2-4

###### Context

EC: M2 L1 TC: A1 I1 T1  
SS: I1 SC: I2 (vy)

LMS: 10000 (0 %SE)

ASIC: Many

#### 1020-C GENERAL MANAGER (LOWER LEVEL)

Plans, organises, directs and controls, through subordinate managers or specialists, the activities of a subsidiary company, small independent company or State, regional or branch establishment of an industrial, commercial, financial or other business organisation, semi-government or statutory authority, municipality or shire council.

Performs some or all of the duties described under Master Title GENERAL MANAGER. Directs and controls the day-to-day operations of a company, statutory authority, local government authority and/or the branch, division or region of an organisation, and has overall accountability for either all or a substantial part of the following operations: accounting; sales; marketing; policy and planning; personnel; production and maintenance of plant and equipment; and the delivery of a community service or administration of a government agency. Prepares budgets and forecasts for submission to senior management and/or representatives of the crown, acts within policy guidelines established by a board of management, chief executive of a larger organisation, minister of the crown, shire president or mayor, and is held to account for the achievement of defined operational objectives.

##### Job Content Factors

###### Workers

FP: GE11-12y PSP2-6y(PPC) / (HD) IP: E5-10y  
or FP: GE10-12y IP: E5-10y  
HC: ESC RQ: U1 D1 V1

###### Materials

SM: D2 I2 P1 T2 EQ:

###### Functions

MA: I2 A1 P1 D1 R1 M2 L2  
PA: S1 E1 SA: S2 L1 I1 P2 M1 R3-4

###### Context

EC: M2 L1 TC: A1 I1 T1  
SS: I0 SC: I1 (vy)

LMS: 15000 (0 %SE)

ASIC: Many

### 1021 FINANCIAL MANAGEMENT OCCUPATIONS

This unit group covers occupations concerned with overall management of the financial activities of industrial, commercial, financial and other business organisations, as well as semi-government and statutory authorities, and federal, State or local government organisations.

**Entry Requirements** normally a degree/diploma/para-professional certificate in accounting, economics, commerce, law or a related discipline, often supplemented by a higher degree or additional training in management or a related area, plus at least 5-10 years' experience.

**Activities include** performing duties as described under Master Title MANAGER; developing and recommending broad financial policies; managing funds; directing preparation of financial and accounting information and interpreting reports for senior management; developing management accounting systems and budgetary controls concerned with investment policy, the placement of funds and the management of borrowings, as well as the distribution of earnings; ensuring the consolidation of regular reports, budgets and forecasts from other divisions for submission to senior management; and being involved in the direction of or participation in legal and secretarial functions, credit collection and lending functions, corporate planning and business development, taxation, audit, insurance and property administration matters, as well as tender preparation and contract administration.

The following titles are illustrative of those used for occupations in this unit group:

Accounting Controller	Accounting Manager
Administration Director	Administration Manager
Assistant Treasurer	Bank Manager
Chief Accountant	Chief Cost Accountant
Company Secretary	Corporate Finance Manager
Credit Manager	Divisional Accountant
Division/State/Branch Accounting Manager	Finance Controller
Finance Director	Financial Director
Financial Manager; Finance Manager	Financial Planning Manager
Management Services Manager (Finance)	Manager, Finance and Administration
Office Manager	Principal Finance Executive
State Credit Manager	State Financial Manager
Taxation Manager	Treasurer
Division/State/Branch Administration Manager	

#### 1021-A FINANCIAL MANAGER (SENIOR LEVEL)

Plans, organises, directs and controls the overall financial management of a major industrial, commercial, financial service or other business organisation, government department or authority, semi-government, local government or shire administration.

Performs duties as described under Master Title MANAGER. Formulates the organisation's financial policy, either independently or in conjunction with corporate executive. Co-ordinates total financial activities including development and monitoring of financial accounting systems, economic research, taxation, treasury, and investment through subordinate divisional or branch managers or supervisors. Assesses the feasibility of projects involving capital expenditure, and oversees tender preparation and contract administration. Directs the preparation of annual budgets and interim financial reports as required by policy, statute or other governing authority.

May also be responsible for corporate, legal, secretarial, administrative or data processing functions.

##### Job Content Factors

###### Workers

FP: GE12y PSP3-5y(Dip) / (HD)

IP: E15-20y

HC: ECI

RQ: U1 D1 V1

###### Materials

SM: D2 I2 P1 T2

EQ:

###### Functions

MA: I2 A1 P1 D1 R1 M1 L2

PA: S1 E1

SA: S2 L1 I1 P2 T1 R1

##### Context

EC: M2 L1

TC: A1 I1 T1

SS: 11

SC: 12 (vy)

LMS: 5000 (0 %SE)

ASIC: Many

#### 1021-B FINANCIAL MANAGER (MIDDLE LEVEL)

Plans, organises, directs and controls the overall financial activities of a medium-sized industrial, commercial, financial service or other business organisation, semi-government or statutory authority, government department, local or shire council.

Performs duties as described under Master Title MANAGER. Formulates financial policy of medium-sized organisation or assists senior financial managers to formulate financial policies of a large diversified organisation. Co-ordinates and participates in internal auditing, budgeting or accounting, development of financial accounting systems, and taxation or treasury matters. Provides financial information to senior management or company executives if required. Supervises accounting, administrative, treasury, secretarial, and credit functions as appropriate. Assists in the design and implementation of computerised accounting and administrative systems in accordance with senior management policy.

##### Job Content Factors

###### Workers

FP: GE12y PSP3-5y(Dip) / (HD)

IP: E10-15y

HC: ECI

RQ: U1 D1 V1

###### Materials

SM: D2 I2 P1 T2

EQ:

*Functions*

MA: I2 A1 P2 D1 R1 M1 L2

PA: S1 E1

SA: S2 L1 I1 P2 M1 R2-4

*Context*

EC: M2 L1

TC: A1 I1 T2

SS: 10

SC: 12 (vy)

LMS: 7000 (0 %SE)

ASIC: Many

**1021-C FINANCIAL MANAGER (LOWER LEVEL)**

Plans, organises, directs and controls the financial activities of a subsidiary company, a small independent company or State, regional, or branch office of an industrial, commercial, financial, service or other business organisation, semi-government or statutory authority, local or shire council, or federal or State government agency or department.

Performs duties as described under Master Title MANAGER. Co-ordinates work of staff to meet work programs determined by superiors. Co-ordinates the collection and reporting for organisation's financial accounts. Examines and develops financial accounting systems and assists with the development of financial strategy in accordance with procedures established

by senior management. Monitors and evaluates production costs where applicable, and assists with the preparation of information for annual and interim budgets, in the management of office staff, and in reporting and payment of administrative expenses associated with insurances, superannuation and property.

May have responsibility for credit control, office management or factor accounting.

*Job Content Factors**Workers*

FP: GE12y PSP2-5y(PPC) / (HD)

IP: E5-10y

or FP: GE10-12y

IP: E5-10y

HC: ECI

RQ: U1 D1 V1

*Materials*

SM: D2 I2 P1 T2

EQ:

*Functions*

MA: I2 A1 P2 D1 R2 M2 L2

PA: S1

SA: S2 L1 I1 P2 B1 R3-4

*Context*

EC: M2 L1

TC: A1 I1 T2

SS: 9

SC: 11 (vy)

LMS: 15000 (0 %SE)

ASIC: Many

**1022 SALES AND MARKETING MANAGEMENT OCCUPATIONS**

This unit group covers occupations concerned with overall management of the sales and marketing activities of industrial, commercial, financial, service or other business organisations including semi-government and statutory authorities.

**Entry Requirements** a degree/diploma/para-professional certificate in a relevant discipline such as business administration, economics, commerce or marketing, or specific industry or product related qualifications in science or engineering, often supplemented by a higher degree or additional training in management or a related area; and/or at least 5-10 years' experience including specific training in the fields of supervision, sales management, sales promotion, merchandising and advertising.

**Activities include** performing duties as described under Master Title MANAGER.

The following titles are illustrative of those used for occupations in this unit group:

Advertising Manager  
Commercial Manager (Marketing)  
Division Sales Manager  
Field Sales Manager  
Group Product Manager  
Key Account Manager  
Marketing Manager  
Market Research Manager  
Product Manager  
Sales Director  
Sales Promotion Manager  
State Sales Manager

Brand Manager  
District Sales Manager  
Export Manager  
General Sales Manager  
Industrial Sales Manager  
Marketing Director  
Marketing Services Manager  
National Sales Manager  
Sales Administration Manager  
Sales Manager  
Sales Training Manager  
Branch/Regional Sales Marketing Manager

**1022-A SALES AND MARKETING MANAGER (SENIOR LEVEL)**

Plans, organises, directs and controls the overall sales and/or marketing activities of a major industrial, commercial, financial, service or other business organisation usually consisting of several major divisions or subsidiary companies or a major semi-government or statutory authority.

Performs duties as described under Master Title MANAGER. Formulates, develops and co-ordinates objectives, policies and plans for the marketing and sales activities of the organisation which will achieve revenue and profit objectives approved by the Board. Directs the sales and marketing planning activities, including product mix, advertising and promotion, market research, revenue and expenditure budgeting to ensure that the organisation's formulated plans comply with objectives, legislation and quotes which may be imposed. Determines

marketing strategies or tactics necessary to meet budgeted objectives and represents the company at industry level and with key accounts as may be necessary in the achievement of sales and profit plans. Ensures that sales forecasts by product, territory and other criteria are prepared, and recommends short and longer term sales goals which achieve revenue objectives. Determines pricing policies, credit terms and conditions for sales, and delegates authority to subordinate managers in negotiation of contractual arrangements. As appropriate, directs sales service activities and ensures that relations with the company's customers are cordial and that they are receiving satisfactory service. Directs and approves all advertising and sales promotion activities and authorises the appointment of agencies, market research and/or consulting organisations. Ensures that sales administration completes necessary operating reports and budgets, and that activities of the function comply with legal demands and ethical standards of relevant acts. Initiates analysis into trends and consumer demands, potential new markets and the competitive position of products and services.

**Job Content Factors****Workers**

FP: GE12y PSP3-5y(Dip)/ (HD)

IP: E15y

or FP: GE10-12y

IP: E15y

HC: ESC

RQ: U1 D1 V1

**Materials**

SM: D2 I1 P2 T2

EQ:

**Functions**

MA: I2 A1 P1 D1 R1 M1 L2

PA: S1 E1

SA: S2 L1 I1 P2 T1 R1

**Context**

EC: M2 L1

TC: A1 I1 T1

SS: I1

SC: I2 (vy)

LMS: 10000 (0 %SE)

ASIC: Many

**1022-B SALES AND MARKETING MANAGER (MIDDLE LEVEL)**

Plans, organises, directs and controls the activities of the sales and marketing division of a medium-sized industrial, commercial, financial, service or other business organisation, or semi-government or statutory authority, the overall marketing strategies of a smaller organisation or the management of a key function within either marketing or sales of a major organisation.

Performs duties as described under Master Title MANAGER. Develops objectives, policies and plans for the marketing and sales activity of a medium-sized company to achieve revenue and profit objectives approved by the Board. Directs the sales and marketing planning activities including product mix, advertising, promotion, market research, revenue and expenditure budgeting to ensure that the company's formulated plans comply with corporate objectives and legislation or quotas which may be imposed by external bodies.

May gather new product ideas, study and evaluate their potential and practicality, co-ordinate the initial stages of the development of new products, including the market, financial, engineering and manufacturing aspects involved in their planning, development and successful introduction into the market; direct the planning, promotion and advertising functions in support of existing products; and participate in devising market strategies and sales tactics to achieve budgeted profit objectives.

May analyse sales, market and research data, interpret results and provide senior management with information for use in the prediction and control of market conditions; conduct sales research to determine current market conditions including types and number of distribution facilities; and evaluate information on current economic conditions.

May initiate, develop and co-ordinate effective advertising and promotion of programs, utilising all media to publicise the organisation's products; direct the creation and placement of

advertising to advantage the company in reaching its sales and profit objectives; and supervise the preparation of exhibits for trade shows and other events.

May formulate and execute sales promotion policies and programs, and analyse the competitive position of the company's products; originate new uses and markets for established products; analyse and evaluate sales methods; and prepare sales promotion material in order to facilitate management effectiveness of the company's sales efforts and product merchandising.

May plan, control and direct activities for the field sales force to obtain maximum sales volume and to develop maximum potential sales from all markets for the company's products; formulate and recommend policies and objectives to ensure the most effective operation of field sales activities; prepare sales forecasts by product and region; and provide senior management with detailed information on all markets with regard to existing and anticipated trends.

May optimise profitable sales of organisations in foreign markets and/or initiate commission payments through the development of an international agency business; formulate policies governing direct and indirect export sales and service including pricing, promotion and advertising, packaging, transportation and credit; make periodic visits to important export markets, investigate operation of agents and distributors, and check local business conditions and opportunities.

May specialise in the development of specific brand lines to meet forecast market demands or in a particular field of sales and marketing.

**Job Content Factors****Workers**

FP: GE12y PSP3-5y(Dip)/ (HD)

IP: E10-15y

or FP: GE10-12y

IP: E10-15y

HC: ESC

RQ: U1 D1 V1

**Materials**

SM: D2 I1 P2 T2

EQ:

**Functions**

MA: I2 A1 P1 D1 R2 M3 L4

PA: S1 E1

SA: S2 L1 I1 P2 M1 R2-4

**Context**

EC: M2 L1

TC: A1 I1 T1

SS: I0

SC: I1 (vy)

LMS: 7000 (0 %SE)

ASIC: Many

**1022-C SALES AND MARKETING MANAGER (LOWER LEVEL)**

Plans, organises, directs and controls sales and marketing activities of an industrial, commercial, financial, service or other business organisation or statutory corporation at a regional or branch level in order to ensure that sales objectives for products or services are reached.

Performs duties as described under Master Title MANAGER. Ensures that regional sales for all company products or services achieve budgeted targets for both cost and revenue. Directs the sales force in designated territories and, as required, selects and develops dealers and distributors in overall warehouse and distribution activities in the region. Plans and manages the sales effort in the region, prepares and receives details of sales reports from territory managers or representatives, and ensures that field staff communication is timely and in accord with directives. Develops and recommends marketing plans for the region, prepares annual sales forecasts by product and source, and advises management on the marketing strategies required to achieve sales targets. Ensures that all advertising and sales promotion material and in-store displays are in accord with agreed programs and that their effectiveness is monitored. Develops new business opportunities for selling company products or services with new clients and/or existing clients, and attends to all key accounts personally to ensure that product and distribution arrangements meet with their requirements. Selects and/or develops distributors, dealers and other outlets,

and supervises customer service activities within the region as appropriate. Trains sales staff. Maintains an awareness of market forces and undertakes market research either on own initiative or as directed by senior company executives. Ensures that customer orders are dealt with promptly, that clients are advised of stock shortages where appropriate, that invoices are forwarded promptly and monies collected in accordance with terms of trading. Monitors branch or regional expenditure to ensure budgeted estimates are not exceeded. Prepares or participates in preparation of branch or regional budgets, and provides interim finance reports to senior management as required.

**Job Content Factors****Workers**

FP: GE11-12y PSP2-4y(PPC) / (PG)

IP: E5y

or FP: GE10-12y

IP: E5-10y

HC: ESC

RQ: U1 D1 V1

**Materials**

SM: D2 I1 P2 T2

EQ:

**Functions**

MA: I2 A1 P1 D1 R2 M2 L3

SA: S2 L1 I1 P2 B1 R3-4

PA: S1 E1

**Context**

EC: M2 L1

TC: A1 I1 T1

SS: 10

SC: 11 (vy)

LMS: 15000 (0 %SE)

ASIC: Many

**1023 PRODUCTION MANAGEMENT OCCUPATIONS**

This unit group covers occupations concerned with overall management of the production activities of industrial or other business organisations including statutory semi-government authorities.

**Entry Requirements** a degree/diploma/associate diploma/para-professional certificate/trade qualification in a relevant discipline such as science, engineering, ergonomics, commerce or operations research, often supplemented by a higher degree or additional training in management or a related area, including internal training, plus at least 5-10 years' experience.

**Activities include** performing duties as described under Master Title MANAGER.

The following titles are illustrative of those used for occupations in this unit group:

Art Director (Publishing and Advertising)	Broadcasting News Editor
Chief Manufacturing Executive	Division Manufacturing Manager
Division Works Manager	Executive Producer (Broadcasting)
Executive Producer (Film)	Factory Manager
Factory Superintendent	Fleetmaster/mistress
General Manufacturing Manager	Logging Manager
Manufacturing Controller	Manufacturing Manager
Manufacturing Manager, Senior	Manufacturing Services Manager
Materials Manager	Mine Manager
Mine Superintendent	Newspaper/Periodical Editor
Operations Manager	Plant Manager
Plant Superintendent	Producer (Films and Stage)
Production Controller	Production Engineering Manager
Production Manager	Production Superintendent
Production Manager, State	Production Supervisor
Quality Assurance Manager	Quality Controller
Quality Control Manager	Recording Director
Studio Manager	Superintendent, Underground Mining
Works Manager	
General Foreman/woman, Underground Mining; Mine Captain	
Industrial Engineering Manager (Manufacturing)	
Operations Manager (Manufacturing)	
Plant/Factory/Operations Manager	
Principal Manufacturing Executive	
Production/Industrial Engineering Superintendent/Supervisor	
Production Manager (Television, Films and Stage)	
Production Planning/Control Manager	
Production Planning/Control Supervisor	
Program Manager; Programmer (Broadcasting); Program Arranger	

**1023-A PRODUCTION MANAGER (SENIOR LEVEL)**

Plans, organises, directs and controls the overall production activities of a major business organisation usually consisting of several divisions or subsidiary companies to ensure maximum production capacity is maintained to enable the company to produce the required products on time within both quality and cost objectives.

Performs duties as described under Master Title MANAGER. Formulates company, production or mining matters either independently or in conjunction with corporate executives. Ensures that production is economical and that adequate information is available to management through the establishment of operating controls and the conduct of comprehensive cost studies, and that details are maintained on manpower facility and raw material usage. Ensures optimum utilisation of plant and labour. Evaluates and prepares reports on plans involving expansion or renewal of plant. Co-ordinates production operations through subordinate production managers and supervisors. Initiates and participates in reviews of production and quality control systems and approves introduction of improved techniques. Prepares annual production plans, and estimates of expenditure. Reviews reports from subordinate managers and supervisors covering all aspects of production including efficiency, stock control and labour relations, and chairs periodic meetings to discuss such factors.

May direct warehouse storage of both raw materials and finished product, be required to ensure that detailed records are kept, and that receipt and dispatch procedures are developed and complied with.

**Job Content Factors****Workers**

FP: GE11-12y PSP2-5y(PPC) / (PG) IP: E10-15y  
or FP: GE10-12y IP: E10-15y  
HC: ESC RQ: U2 D1 V1

**Materials**

SM: D2 I2 P2 T1 EQ:

**Functions**

MA: I1 A1 P2 D1 R1 M1 L2  
PA: S1 W2 E1 SA: S2 L1 I1 P2 T1 R1

**Context**

EC: M2 L1 TC: A1 I1 T2  
SS: I1 SC: I2 (vy)

LMS: 10000 (0 %SE)

ASIC: Many

**1023-B PRODUCTION MANAGER (MIDDLE LEVEL)**

Plans, organises, directs and controls the overall production or mining activities of a medium-sized industrial, mining or other business organisation, including semi-government authorities, to ensure optimum production capacity is maintained.

Performs duties as described under Master Title MANAGER. Co-ordinates production operations through subordinate supervisors to ensure that product of acceptable quality is produced on time at minimal cost in accordance with agreed production schedules. Reviews production quality control systems and prepares reports for senior management recommending revised operation plans or capital expenditure. Implements new or modified techniques in accordance with senior management policy. Prepares or assists with the preparation of annual expenditure and production estimates. Participates in meetings relating to production quality control, plans safety and industrial relations, and maintains production records of job quotes, costs, and stock and plant utilisation. Ensures compliance with company policies, safety standards and good housekeeping practices and confers with senior management in the establishment of shift standards and working schedules for all departments connected with production. Establishes controls necessary to achieve production efficiency and/or optimisation yield and product quality. Forecasts labour requirements and recommends equipment layout changes, improvements to production

methods or material handling procedures. Ensures that all areas of plant are operating efficiently, that maintenance schedules are followed and that records of maintenance including job cost are maintained.

**Job Content Factors****Workers**

FP: GE10-12y PSP3-4y(T) / (PG) IP: E5-10y  
or FP: GE10-12y IP: E5-10y  
HC: ESC RQ: U2 D1 V1

**Materials**

SM: D2 I1 P2 T2 EQ: S1 M2

**Functions**

MA: I1 A1 P1 D1 R2 M2 L2  
PA: P2 S2 W2 E2 SA: S2 L1 I1 P2 M1 R2-4

**Context**

EC: M2 L1 TC: A1 I1 T2  
SS: I0 SC: I2 (vy)

LMS: 7000 (0 %SE)

ASIC: Many

**1023-C PRODUCTION MANAGER (LOWER LEVEL)**

Plans, organises, directs and controls the operating activities of a production unit within a subsidiary company or small independent company or a regional or branch production establishment of an industrial or other business organisation including semi-government authorities, achieving optimum yields in accordance with budgeted requirements by performing any combination of the following duties.

Performs duties as described under Master Title MANAGER. Controls and directs production operations through production foremen/women to meet delivery deadlines and to ensure expenditure remains within budgeted estimates. Liaises with senior management, sales, quality control and maintenance personnel to ensure optimum rates of production. Implements new and modified operating techniques in accordance with management policy, and co-ordinates plant maintenance programs. Initiates and co-ordinates quality control checks to ensure that production processes meet accepted standards and that manufactured goods accord with batch specifications. Forecasts labour requirements, and selects or participates in selection of new staff. Participates in industrial relations matters including worker/union/management negotiations. Ensures that production and factory safety standards are met. Maintains production records and records of job quotes, costs, and stock and plan utilisation, and provides verbal or written reports to senior management as required. Participates in meetings with senior management relating to all aspects of production. Directs engineering design construction of new buildings and production facilities, and supervises compliance with engineering specifications. Establishes production schedules, including both material procurement and manufacturing schedules based on sales forecasts, and advises on economic production runs, having regard to the availability of resources. Develops and recommends inspection and sampling techniques, quality control plans or process control procedures that will ensure finished products meet quality specifications and standards. Provides technical assistance to purchasing staff in connection with the purchase of raw materials, supplies and equipment, and ensures compliance with government regulations, particularly with regard to product labelling as appropriate. Prepares spoilage and salvage reports.

**Job Content Factors****Workers**

FP: GE10-12y PSP2-4y(T) / (Adip) IP: E5-10y  
or FP: GE10-12y IP: E5-10y  
HC: ESC RQ: U2 D1 V1

**Materials**

SM: D2 I2 P2 T1 EQ:

**Functions**

MA: I1 A1 P1 D1 R2 M2 L2  
PA: P2 S2 W2 E2 SA: S2 L1 I1 B1 R3-4

## Context

EC: M2 L1

TC: A1 I1 T2

SS: 9

SC: I1 (vy)

LMS: 15000 (0 %SE)

ASIC: Many

**1024 SUPPLY AND DISTRIBUTION MANAGEMENT OCCUPATIONS**

This unit group covers occupations concerned with overall management of the purchasing and/or distribution activities of industrial, commercial or other business organisations, including semi-government authorities.

**Entry Requirements** a degree/diploma/para-professional certificate in a relevant discipline such as science, engineering, accounting, commerce or economics, often supplemented by a higher degree or additional training in management or a related area, and/or at least 5-10 years' experience including participation in specific internal or professional association training courses.

**Activities include** performing duties as described under Master Title MANAGER.

The following titles are illustrative of those used for occupations in this unit group:

Commercial Manager/Director

Division/State Purchasing Manager

General Manager, Operations

Procurement Controller

Procurement Manager

Purchasing Manager

Purchasing Superintendent

Shipping Manager

Supply Controller

Supply Director

Supply Manager

Supply Superintendent

Transport Manager

*Related Occupations*

Major Group 41

: Sales Occupations

**1024-A SUPPLY AND DISTRIBUTION MANAGER (SENIOR LEVEL)**

Plans, organises and controls the overall purchasing and/or distribution activities of a major industrial, commercial or other business organisation usually consisting of several major divisions or subsidiary companies or of a semi-government authority.

Performs duties as described under Master Title MANAGER. Ensures that the company's purchasing activity is conducted efficiently with a view to optimising economy and purchase, quality of materials purchased, reliability of supply and timeliness of delivery. Develops policies to assist the company meet group purchasing requirements, recommends purchasing and supply objectives, and ensures that these objectives are clearly communicated to all involved in purchasing throughout the organisation. Develops procurement plans and programs which will enable efficient implementation of company policies and objectives with regard to procurement of goods or services. Develops alternate sources of supply for all key materials, continually negotiates stand-by sources and maintains an up-to-date list of acceptable suppliers for all materials. Initiates and participates in reviews of local and overseas supply sources and leads contractual negotiations with existing or potential suppliers to ensure best price and most favourable delivery terms for goods and services. Ensures that delivery of goods is coordinated with available storage, supplier lead times and production requirements of the organisation, liaising with other management personnel within the organisation, shipping companies, and customs and import authorities as required. Initiates and participates in review, development and improvement of computerised and other inventory control systems. Has accountability for the

direction and control of warehouse activity to ensure efficient and economic utilisation of facilities for storing and distributing finished goods inventories. Supervises delivery of merchandise, and ensures sound liaison and working relationships exist between manufacturing, marketing and supply. Reviews and analyses inventory reports and surplus stock listed to determine the need for improvement in inventory control methods, and restore satisfactory inventory balance. Reviews production and shipment records of all products to determine conformity with shipment commitments, and provides regions with information to facilitate the co-ordination of overall company distribution and customer service functions. Plans warehousing and distribution programs, and recommends the establishment of new distribution centres, including the selection of sites, equipment and staff. Provides for the inspection of incoming material against order and specifications for correctness and for defects, and arranges for the return of defective material. Arranges for periodic and special inventory reviews for finished goods, and reconciles book inventories with physical counts. Maintains an awareness of current transportation rates and facilities to areas serviced by the companies' warehouses, selecting and using those which consistently provide the best service. Authorises all freight charges. Prepares budgets for warehouse and distribution activities.

May initiate and participate in review of organisation's materials handling and storage facilities. May be variously designated according to status or structure of organisation.

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP2-4y(PPC) / (PG)	IP: E10-15y
or FP: GE10-12y	IP: E10-15y
HC: EC1	RQ: U1 D1 V1
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ:
<b>Functions</b>	
MA: I2 A1 P1 D1 R1 M1 L2	
PA: S1 E1	SA: S2 L1 I1 P2 T1 R1
<b>Context</b>	
EC: M2 L1	TC: A1 I1 T2
SS: 11	SC: 12 (vy)
LMS: 10000 (0 %SE)	ASIC: Many

**1024-B SUPPLY AND DISTRIBUTION MANAGER (MIDDLE LEVEL)**

Plans, organises, directs and controls the overall purchasing and/or distribution activities of a medium-sized industrial, commercial or other business organisation, such as a major division or subsidiary company or semi-government authority.

Performs duties as described under Master Title MANAGER. Directs or supervises purchasing, supply and distribution operations within the guidelines established by senior purchasing, supply and distribution managers or corporate executive. Investigates local and overseas supply sources and maintains awareness of product developments. Co-ordinates purchasing of goods or services in line with established standards relating to quantities, quality and price. Co-ordinates delivery of goods according to supplier lead times, method of freighting and forecast requirements of the company, by liaising with suppliers, shipping companies, customs authorities, production and marketing divisions, and company general management. Ensures that adequate storage facilities are available. Initiates and participates in development of computerised inventory control systems. Reviews potential sources of supply, considering reduced costs, improved quality of goods or services and delivery procedures, and participates in contractual negotiations with existing and potential suppliers. Plans, directs and co-ordinates the ordering or distribution of products, parts and accessories to ensure adequate and timely distribution to obtain maximum sales potential consistent with inventory control. Plans, organises and directs all phases of product distribution activities, and reviews and analyses inventory reports and surplus stock lists to determine the need for improvement to inventory control methods. Directs the initiation of corrective methods to restore satisfactory inventory balance. Arranges adequate space requirements for storage products and develops changes in distribution techniques and practices. Evaluates and recommends shipping deadlines and takes corrective action to eliminate behind-schedule conditions. Co-ordinates distribution efforts to effectively achieve the introduction of new products, analyses slow moving surplus industries and recommends appropriate action.

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP2-4y(PPC) / (PG)	IP: E5-10y
or FP: GE10-12y	IP: E5-10y
HC: EC1	RQ: U1 D1 V1
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ:
<b>Functions</b>	
MA: I2 A1 P1 D1 R1 M1 L2	
PA: S1 E1	SA: S2 L1 I1 P2 M1 R2-4

**Context**

EC: M2 L1	TC: A1 I1 T2
SS: 10	SC: 11 (vy)

LMS: 7000 (0 %SE)

ASIC: Many

**1024-C SUPPLY AND DISTRIBUTION MANAGER (LOWER LEVEL)**

Plans, organises, directs and controls the purchasing and/or distribution activities of a small independent industrial, commercial or other business organisation or subsidiary company, or a State, regional or branch establishment, or a small semi-government authority.

Performs duties as described under Master Title MANAGER. Makes decisions on less complex purchasing, supply and distribution management. Manages a purchasing, supply and distribution function in a small company or a major section of a larger organisation. Procures materials, supplies, parts and equipment which have been approved for purchase, interviews vendors and recommends sources of supply. Negotiates contracts as appropriate. Amends or initiates procedures in order to optimise use of suitable resources. Investigates sources of supply and maintains awareness of product developments. Controls purchasing of goods and services in line with company policies relating to quantities, quality and price. Co-ordinates delivery and dispatch of goods according to available storage and materials handling facilities, supplier lead time and method of freighting. Liaises with suppliers, shipping companies, production and marketing divisions, and senior management and customs authorities if required. Initiates and participates in development and maintenance of inventory control systems. Directs and controls warehouse activities to ensure efficient economic utilisation of facilities for storing and distribution of raw material and finished goods inventory. Supervises prompt delivery of merchandise, and the receiving and storing of material, equipment, merchandise and supplies, and provides for the inspection of incoming material against order and specification. Directs the planning and assignment work of warehouse foremen/women and supervisors. Plans and co-ordinates the transfer of materials from warehouse sites, and maintains an up-to-date awareness of current transportation rates and facilities. Develops and recommends improvements in current warehouse practices, and promotes efficiency having regard to cost.

May participate in review of potential or alternative sources of supply, considering reduced costs, improved quality of goods and services and delivery procedures. May participate in contractual negotiations with existing and potential suppliers. May specialise in a particular area of purchasing and supply management, such as raw materials production, chemicals, plastics, explosives, vehicles, petroleum products, stationery and printing supplies.

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP2-3y(PPC) / (Dip)	IP: E5-10y
or FP: GE10-12y	IP: E7-10y
HC: EC1	RQ: U1 D1 V1
<b>Materials</b>	
SM: D2 I1 P2 T2	EQ:
<b>Functions</b>	
MA: I2 A1 P2 D1 R2 M2 L2	
PA: S1 E1	SA: S2 L1 I1 P2 M2 B1 R3-4
<b>Context</b>	
EC: M2 L1	TC: A1 I1 T2
SS: 9	SC: 11 (vy)
LMS: 15000 (0 %SE)	ASIC: Many

## 1025 PERSONNEL AND INDUSTRIAL RELATIONS MANAGEMENT OCCUPATIONS

This unit group covers occupations concerned with overall management of the personnel and industrial relations activities of industrial, commercial, financial or other business organisations, including semi-government authorities.

**Entry Requirements** a degree/diploma/para-professional certificate in a relevant discipline, such as behavioural science, economics, industrial relations or commerce, often supplemented by a higher degree or additional training in management or a related area, plus at least 5-10 years' experience.

**Activities include** performing duties as described under Master Title MANAGER.

The following titles are illustrative of those used for occupations in this unit group:

Corporate Personnel Manager	Corporate Remuneration Manager
Director, Human Resources/Human Relations	Division/State Personnel Manager
Employee Relations Manager	Employee Relations Superintendent
Group Industrial Relations Manager	Industrial Relations Superintendent
Manager, Human Relations/Human Resources	Manager, Manpower Development
Manager, Manpower Planning and Development	Manpower Planning Manager
Personnel Administration Manager	Personnel Research Specialist
Personnel Superintendent	Personnel Supervisor
Plant Personnel Manager	Staff Development Manager
Training Manager	

### 1025-A PERSONNEL AND INDUSTRIAL RELATIONS MANAGER (SENIOR LEVEL)

Plans, organises, directs and controls the overall personnel and industrial relations activities of a major industrial, commercial, financial or other business organisation usually consisting of several major divisions or subsidiary companies, or of a semi-government authority.

Performs duties as described under Master Title MANAGER. Develops and co-ordinates implementation of company policy on personnel and industrial relations matters, such as personnel administration, labour relations, wage and salary administration, recruitment, staff induction and training, health and safety, and employee benefits. Liaises with organisation general management in relation to such matters. Co-ordinates promotion and relocation of intra-company or divisional personnel. Ensures that comprehensive personnel records are maintained and initiates modified practices in order to improve efficiency of data recording. Initiates and participates in research projects aimed at improving personnel systems and procedures, and industrial relations matters. Ensures that appropriate personnel are kept informed of changes in personnel policy, especially in the field of industrial relations, emanating from decisions made by external organisations such as unions or legalisative bodies. Develops industrial relations policies, practices and procedures which will promote harmonious employer/employee relationships and minimise downtime through industrial dispute. Ensures that approved safety practices/procedures are implemented and that injury and lost time due to accidents is minimal. Directs and maintains corporate manpower plan, and initiates action as required to ensure that general management achieve their objectives in relation to the optimum use and development of people.

#### Job Content Factors

##### Workers

FP: GE11-12y PSP2-4y(PPC) / (PG)	IP: E10-15y
or FP: GE10-12y	IP: E10-15y
HC: ESC	RQ: U2 D1 V1

##### Materials

SM: D2 I1 P2 T2	EQ:
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##### Functions

MA: I2 A1 P1 D2 R1 M1 L2	SA: S2 L1 I1 P1 T1 R1
PA: S1 E1	

##### Context

EC: M2 L1	TC: A1 I1 T2
SS: 11	SC: 12 (vy)

LMS: 10000 (0 %SE)

ASIC: Many

### 1025-B PERSONNEL AND INDUSTRIAL RELATIONS MANAGER (MIDDLE LEVEL)

Plans, organises, directs and controls, through subordinate managers, the personnel and industrial relations activities of a medium-sized industrial, commercial, financial or other business organisation, such as a major division or subsidiary company, or of a semi-government authority.

Performs duties as described under Master Title MANAGER. Directs or supervises a personnel and industrial relations division or branch within the guidelines established by senior company personnel and industrial relations managers or corporate executive. Co-ordinates implementation of company relations matters, such as personnel administration, labour relations, wage and salary administration, recruitment, staff induction and training, health and safety, and employee benefits. Participates in manpower planning and other projects aimed at improving personnel practices of the organisation. Ensures that employees are informed of changes in personnel practice and policy, and that such practices and policies are adhered to. Decides or participates in decision making on matters of recruitment and promotion. Ensures maintenance of comprehensive personnel records. Ensures on a company/

divisional or State basis as appropriate, that approved safety practices and procedures are implemented, and that injury and lost time through accidents is minimal. Administers salary administration policies and advice, advises on competitive conditions and internal remuneration anomalies, reviews benefit and employee services policies as directed, and recommends changes as appropriate in light of economic, legal and social demands. Where specialising in industrial relations, maintains records and prepares reports on union activities, assembles and analyses information on trends in industrial relations and assists, as requested, in the preparation of management studies on seniority, superannuation, lay-off facilities, redundancy practices, group insurance and related subjects. Directs the application of regulations and statutes including workers' compensation, re-employment rights and wage rates, prepares briefs for arbitration and labour litigation cases, and represents the company at court hearings.

May represent an organisation in industrial relations negotiations. May participate in safety and security aspects of personnel throughout the organisation.

#### Job Content Factors

##### Workers

FP: GE11-12y PSP2-4y(PPC) / (PG) IP: E5-10y  
or FP: GE10-12y IP: E5-10y  
HC: ESC RQ: U2 D1 V1

##### Materials

SM: D2 I1 P2 T2 EQ:

##### Functions

MA: A2 P1 D2 R2 M2 L3  
PA: S1 E1 SA: S2 L1 I1 P1 M1 R2-4

##### Context

EC: M2 L1 TC: A1 I1 T2  
SS: 10 SC: 11 (vy)

LMS: 7000 (0 %SE)

ASIC: Many

#### 1025-C PERSONNEL AND INDUSTRIAL RELATIONS MANAGER (LOWER LEVEL)

Plans, organises, directs and controls the personnel and industrial relations activities of a small independent industrial, commercial, financial or other business organisation, subsidiary company, State, regional or branch establishment

or small semi-government authority, and/or manages a personnel or industrial relations function within a medium sized or larger organisation, such as training, manpower planning and development, recruitment or industrial relations.

Performs duties as described under Master Title MANAGER. Co-ordinates and directs activities of a personnel and industrial relations section in accordance with established company policy, as directed by senior personnel and industrial relations managers or general management. Resolves matters relating to personnel administration, labour relations, wage and salary administration and recruitment in a small company, or refers complex problems to senior management for resolution where managing a specific branch of personnel and industrial relations in a larger organisation. Determines or participates in determination of such matters as staff induction and training, health and safety, and employer benefits. Reviews and recommends changes in personnel practice or implements changes recommended by senior management in order to maintain optimum efficiency of personnel and industrial relations activities. Co-ordinates staff training courses in areas such as apprentice, supervisory or sales and management training. Controls security and safety training matters including investigation of accidents. Provides information for senior management activities such as manpower planning and other human resource requirements of the organisation.

May represent an organisation in industrial relations negotiations as directed by senior management.

#### Job Content Factors

##### Workers

FP: GE11-12y PSP2-3y(PPC) / (Dip) IP: E5-10y  
or FP: GE10-12y IP: E7-10y  
HC: ESC RQ: U2 D1 V1

##### Materials

SM: D2 I1 P2 T2 EQ:

##### Functions

MA: A2 P2 D2 R2 M2 L3  
PA: S1 E1 SA: S2 L1 I1 P1 B1 R3-4

##### Context

EC: M2 L1 TC: A1 I1 T2  
SS: 9 SC: 10 (vy)

LMS: 15000 (0 %SE)

ASIC: Many

## 1026 DATA PROCESSING MANAGEMENT OCCUPATIONS

This unit group covers occupations concerned with management of the overall electronic data processing activities of industrial, commercial, financial or other business organisations including semi-government authorities.

**Entry Requirements** a degree/diploma in a relevant discipline, such as accounting, commerce, computer studies or information science, often supplemented by a higher degree or additional training in management or a related area, plus at least 5-10 years' experience.

**Activities include** performing duties as described under Master Title MANAGER.

The following titles are illustrative of those used for occupations in this unit group:

Chief Programmer	Corporate Information Services Manager
Network Manager	Operations Manager (Data Processing)
Programming Manager (Computing)	Project Manager, Systems
Systems Manager	Systems Operations Manager
Technical Manager, Computing	Telecommunication Manager
Training Manager, Data Processing	
Management Services Manager (Data Processing)	
Management Information Services Manager/Director	

### 1026-A ELECTRONIC DATA PROCESSING MANAGER (SENIOR LEVEL)

Plans, organises, directs and controls the overall electronic data processing activities of a major industrial, commercial, financial or other business organisation, usually consisting of several major divisions or subsidiary companies, or of a major semi-government authority.

Directs data processing operations, formulates policy and ensures effective implementation of management's requirements for information through computer applications development and computer operations. Analyses management needs regarding information retrieval, data control and use of computer and data processing equipment, and provides guidance and counsel in the examination and definition of objectives for existing or proposed systems, and in the design of improved systems utilising computing and data processing equipment. Recommends equipment and software for data processing and participates in familiarisation of key management with data processing techniques as well as the conversion of existing company procedures to electronic data processing systems. Directs the preparation and installation of data processing procedures and systems including the design of source documents, the technical direction of data processing operations and assistance in the format of management information reports. Initiates and participates in the review of existing manual and mechanical operations for such processes as accounting, inventory control, production, personnel and purchasing. Ensures maintenance of programming standards and quality control techniques. Initiates research into new systems, equipment, programming technology and computer applications, and determines changes to existing data processing procedures or equipment in respect of computer technology. Co-ordinates writing of specifications for tenders for new equipment. Prepares budgets and financial estimates detailing capital and operational costs.

May participate, as required, in the company's investigation of the application of higher technology for its operations including satellites and other forms of electronic communication devices.

#### Job Content Factors

##### Workers

FP: GE12y PSP3-5y(Dip) / (HD) IP: E10-15y  
HC: ESI RQ: U1 D1 V1

##### Materials

SM: D2 I2 P1 T2 EQ: W1

##### Functions

MA: A1 P1 D1 R1 M1 L1  
PA: S1 W2 E1 SA: S2 L1 I1 P2 T1 R1

##### Context

EC: M2 L1 TC: A1 I1 T2  
SS: I1 SC: I2 (vy)

LMS: 10000 (0 %SE)

ASIC: Many

### 1026-B ELECTRONIC DATA PROCESSING MANAGER (MIDDLE LEVEL)

Plans, organises, directs and controls, through subordinate managers, the electronic data processing activities of a medium-sized industrial, commercial, financial or other business organisation, such as a major division or subsidiary company, or of a semi-government authority, and/or manages a significant data processing function within a large organisation such as systems development or computer operations of a major network.

Performs duties as described under Master Title MANAGER. Co-ordinates and supervises the operations of an electronic data processing division within the guidelines established by

corporate executive or senior electronic data processing managers. Reviews existing manual and mechanical operations pertaining to such processes as accounting, inventory control production, personnel and purchasing, and recommends, initiates and directs conversion to appropriate electronic data processing systems. Co-ordinates the introduction of programming standards and quality control systems. Directs research into new systems, equipment, programming techniques and computer applications, and recommends appropriate changes necessary to increase efficiency, reduce costs and improve overall organisational procedure.

May specialise in a particular facet of data processing, such as telecommunications network management, systems development, operator training and communication.

#### Job Content Factors

##### Workers

FP: GE12y PSP3-5y(Dip) / (HD) IP: E5-10y  
HC: ESI RQ: U1 D1 V1

##### Materials

SM: D2 I2 P1 T2 EQ: W1

##### Functions

MA: A1 P1 D1 R2 M1 L1  
PA: S1 W2 E1 SA: S2 L1 I1 P2 M1 R2-4

##### Context

EC: M2 L1 TC: A1 I1 T2  
SS: I1 SC: I2 (vy)

LMS: 7000 (0 %SE)

ASIC: Many

### 1026-C ELECTRONIC DATA PROCESSING MANAGER (LOWER LEVEL)

Plans, organises, directs and controls the electronic data processing activities of a small independent industrial, commercial, financial or other business organisation or subsidiary company, or State, regional or branch establishment, or small semi-government authority, or significant function in a larger data processing installation including systems operations, telecommunications or network engineering.

Performs duties as described under Master Title MANAGER. Supervises and directs the activities of a shift or small to medium-sized specific group of computer operators under the overall control of senior management. Develops programs to meet a variety of applications, and supervises and controls activities of computer programmers. Analyses and determines solutions for complex operational problems either independently or in consultation with users and senior management. Ensures maintenance of programming standards and quality control techniques. Identifies and recommends to senior management methods of improving operations by introducing either modified procedures or new equipment. Participates and makes recommendations relating to staff selection, training and development.

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(D) / (Dip) IP: E5-10y  
or FP: GE12y PSP4y(PG) IP: E5-10y  
HC: ESI RQ: U1 D1 V1

##### Materials

SM: D2 I2 P1 T2 EQ: W1

##### Functions

MA: A1 P1 D2 R2 M2 L1  
PA: S1 E1 SA: S2 L1 I1 P2 B1 R3-4

##### Context

EC: M2 L1 TC: A1 I1 T2  
SS: 9 SC: I1 (vy)

LMS: 15000 (0 %SE)

ASIC: Many

### 1027 ENGINEERING MANAGEMENT OCCUPATIONS

This unit group covers occupations concerned with overall management of civil, mechanical, electrical, chemical, structural, mining or other engineering activities of industrial, mining or other business organisations including semi-government authorities.

**Entry Requirements** a diploma/degree in a relevant engineering discipline, often supplemented by a higher degree or additional training in management or a related area, plus at least 5-10 years' experience.

**Activities include** performing duties as described under Master Title MANAGER.

The following titles are illustrative of those used for occupations in this unit group:

Chief Chemical Engineer	Chief Electrical Engineer
Chief Mining Engineer	Experienced Engineer, Civil Engineering
Experienced Engineer, Chemical Engineering	Experienced Engineer, Electrical Engineering
Experienced Engineer, Industrial Engineering	Experienced Engineer, Mining Engineering
Industrial Engineering Manager	Methods Engineering Manager
Plant Engineering Manager	Principal Engineering Executive
Project Engineering Manager	Section Engineering Manager
Senior Construction Manager	Senior Industrial Engineering Manager
Senior Project Engineering Manager	Supervising Engineer
Principal Electrical Engineer, Communications/Generation/Transmission Development	

#### 1027-A ENGINEERING MANAGER (SENIOR LEVEL)

Plans, organises, directs and controls the overall civil, mechanical, electrical, structural, production, industrial, mining or other engineering activities of a major business organisation usually consisting of several major divisions or subsidiary companies.

Performs duties as described under Master Title MANAGER. Plans and directs the engineering and technical operations of a major organisation including the provision of engineering and/or technical advice to assist in the operations of the enterprise. Co-ordinates and directs major engineering projects within established organisational guidelines. Determines or participates in determination of functional priorities, operating policy and methodology. Prepares plans, designs, materials and technical calculations, ensuring conformity with specifications. Evaluates engineering proposals and checks designs, plans and supporting calculations prepared by technical support personnel and subordinate managers. Resolves ad hoc or unforeseen problems associated with engineering operations. Initiates and participates in reviews of engineering procedures, and identifies and prepares methodological improvements. Determines or participates in determination of matters relating to personnel procedures such as staff selection, training and salaries. Provides professional engineering advice to other areas of the organisation as required.

May become involved in specialist engineering functions in mining, including the development of medium and longer term mine plans and the conduct of feasibility studies to assess the most economic methods of mining for future operations of the organisation; prepare the direction and style of development of mines and take into account manpower, material and transport requirements, as well as access to ports and markets, tonnage and sales projection; provide technical advice to mine operation staff and the resolution of specific mining problems relating to electrical, mechanical or

operational issues, and assess the suitability of new equipment pertaining to mine operations. May relate to the determination of plant maintenance policy, plant replacement and extensions, equipment use and other matters relating to the flow of work and optimisation of yield from raw materials in plant, production and industrial engineering settings or perform senior level managerial duties in other specialist areas.

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP4-7y(D) / (HD)	IP: E10-15y
HC: ERI	RQ: U1 D1 V1
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ: S1 M2 W2
<b>Functions</b>	
MA: I2 A1 P1 D1 R1 M1 L1	
PA: S1 W2 E1	SA: S2 L1 I1 P2 T1 R1
<b>Context</b>	
EC: M2 L1	TC: A1 I1 T2
SS: I1	SC: I2 (vy)
LMS: 10000 (0 %SE)	ASIC: Many

#### 1027-B ENGINEERING MANAGER (MIDDLE LEVEL)

Plans, organises and controls the civil, mechanical, electrical, chemical, mining or other engineering activities of a medium-sized industrial, mining or other business organisation, including a semi-government authority.

Performs duties as described under Master Title MANAGER. Co-ordinates engineering projects within established organisation guidelines, usually under the overall direction of senior engineering management or corporate executive. Determines or participates in determination of operating policies and methodology within a broad framework established by senior management. Prepares plans, designs, materials and technical calculations ensuring conformity with

specifications, and checks designs, plans and supporting calculations prepared by technical support personnel. Participates in reviews of engineering procedures, and suggests and implements methodological improvements. Resolves less complex problems associated with engineering operations and refers more difficult problems to senior engineering managers and/or external consultants. Provides professional engineering advice to other areas of the organisation as required.

May participate in matters of staff selection and training. May provide annual or interim reports on engineering expenditure and forecast financial estimates. In mining, may be involved in the planning and co-ordination of all engineering activities at a mine site including construction, installation, maintenance, electrical and production engineering activities.

#### Job Content Factors

##### Workers

FP: GE12y PSP4-7y(D) / (HD)

HC: ERI

IP: E5-10y

RQ: U1 D1 V1

##### Materials

SM: D2 I2 P1 T2

EQ: S1 M2 W2

##### Functions

MA: I2 A1 P1 D2 R1 M2 L1

PA: S1 W2 E1

SA: S2 L1 I1 P2 M1 R2-4

##### Context

EC: M2 L1

TC: A1 I1 T2

SS: 10

SC: 11 (vy)

LMS: 7000 (0 %SE)

ASIC: Many

### 1027-C ENGINEERING MANAGER (LOWER LEVEL)

Plans, organises, directs and controls the civil, mechanical, electrical, chemical, industrial, production, mining or other engineering activities of a wholly owned subsidiary company, a small independent company or State, regional or branch establishment of an industrial or other business organisation, including semi-government authorities.

Performs duties as described under Master Title MANAGER. Directs specific engineering projects, frequently as head of a project team. Explains nature of projects or task to subordinate engineers and technical support personnel, and

allocates specific duties and responsibilities. Provides advice when necessary and resolves more straightforward problems or refers problems to higher level engineering managers. Reviews progress of subordinates and checks designs, plans and supporting technical calculations for conformity with specifications. Reviews and modifies operating methodology, if required, to meet performance standards and deadlines. Draws conclusions from research and development projects, and either implements required actions or prepares report recommending course of action for senior management.

May prepare reports covering expenditure or financial estimates, or participate in staff selection and training. May be variously designated according to specialisation of accountability, e.g. in industrial engineering, be held accountable for the development of industrial engineering policies and practices in order to improve operating performance, reduce waste and delays or otherwise promote cost reductions at a higher level of efficiency in a production environment. Within mining, may conduct engineering assignments within clearly defined parameters or standards under general direction, involving research design and installation commissioning of equipment, maintenance or construction at a specific mine site.

#### Job Content Factors

##### Workers

FP: GE12y PSP4y(D) / (Dip)

or FP: GE12y PSP5y(PG)

HC: ERI

IP: E5-10y

IP: E5-10y

RQ: U1 D1 V1

##### Materials

SM: D2 I2 P1 T2

EQ: S1 N2 M2 W2

##### Functions

MA: I2 A1 P1 D2 R2 M2 L1

PA: S1 W2 E1

SA: S2 L1 I1 P2 M2 B1  
R3-4

##### Context

EC: M2 L1

SS: 10

TC: A1 I1 T2

SC: 11 (vy)

LMS: 15000 (0 %SE)

ASIC: Many

## 1028 SCIENCE MANAGEMENT OCCUPATIONS

This unit group covers occupations concerned with overall management of the scientific research and development activities of industrial, commercial or other business organisations, including semi-government authorities.

**Entry Requirements** a degree/diploma in a relevant field of science, often supplemented by a higher degree or additional training in management or a related area, plus at least 5-10 years' experience.

**Activities include** performing duties as described under Master Title MANAGER.

The following titles are illustrative of those used for occupations in this unit group:

Chief Chemist

Chief Surveyor

Director of Surveys

Laboratory Superintendent

Project Geophysicist

Supervising Bacteriologist

Supervising Microbiologist

Surveyor-General

Principal Scientist (Agriculture, Chemistry, Geology, Pharmacology, Physics, Biology)

Chief Geologist

Conservator of Forests

Laboratory Manager

Project Geologist

Senior Research Manager

Supervising Chemist

Supervising Pharmacologist

**1028-A SCIENCE MANAGER (SENIOR LEVEL)**

Plans, organises, directs and controls the overall scientific research, development or field management activities of a major industrial, commercial or other business organisation, usually consisting of several major divisions or subsidiary companies or a major government department or semi-government authority.

Performs duties as described under Master Title MANAGER. Formulates research and development programs, policies and procedures; manages research and development laboratory studies; directs projects designed to increase pay-back from development expenditure. Manages expenditure of budgeted funds and co-ordinates major scientific research and development projects within guidelines established by corporate executives subject to financial constraints and, as appropriate, government grants. Identifies and defines matters requiring investigation. Originates and delegates research tasks, ensuring optimum utilisation of resources in meeting project objectives. Determines, or participates in determination of, matters relating to personnel procedure such as staff selection, training and salaries. Undertakes review of technical and scientific output to ensure conformity with policies and standards. Ensures that research and development staff or field scientific staff are kept up-to-date with literature appropriate to their field of endeavour, and that all research and field staff adopt operational research or laboratory procedures which are consistent with the current state of knowledge.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3-8y(Dip) / (HD)	IP: E10-15y
HC: ERI	RQ: U1 D1 V1
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ: S1 M2 W2
<b>Functions</b>	
MA: I2 A1 P1 D1 R1 M1 L1	
PA: S1 W2 E1	SA: S2 L1 I1 P2 T1 R1
<b>Context</b>	
EC: M2 L1	TC: A1 I1 T2
SS: I1	SC: I2 (vy)
LMS: 10000 (0 %SE)	ASIC: Many

**1028-B SCIENCE MANAGER (MIDDLE LEVEL)**

Plans, organises, directs and controls the overall scientific, research, development and/or field operations of a medium-sized industrial, commercial or other business organisation such as a major division or subsidiary company, government department, semi-government authority or research institute.

Performs duties as described under Master Title MANAGER. Co-ordinates scientific research and development within guidelines established by senior science management and corporate executive, subject to financial constraints. Assists in formulation of company policy and makes recommendations on expenditure of budgeted funds. Determines methodology for undertaking required investigations. Co-ordinates research functions ensuring optimum use of resources. Makes recommendations on matters relating to personnel procedures such as staff selection, training and salaries. Supervises technical and scientific output of subordinates.

May lead project team of specialist personnel engaged in complex scientific research and development, or undertake specific scientific tasks in areas such as geology or geophysics where officers are responsible for the analysis and independent

interpretation of size and/or other geological data in an attempt to discover areas which reflect favourable formation structures. May recommend exploration programs and/or alteration or discontinuance of current exploration activities; plan, schedule and conduct geophysical studies on projects where problems have a variety of complex features; originate and recommend programs for both laboratory and field investigation; and personally conduct advanced studies of a specialist nature. May review field and laboratory procedures, organisation and staffing, and recommend changes as appropriate or, in government controlled fields, contribute to policy interpretation, particularly related to regulatory and statutory matters, and act in a consultative capacity within the organisation on matters pertaining to registration.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3-8y(Dip) / (HD)	IP: E5-10y
or FP: GE12y PSP4-7y(PG)	IP: E5-10y
HC: ERI	RQ: U1 D1 V1
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ: S1 M2 W2
<b>Functions</b>	
MA: I2 A1 P1 D2 R1 M2 L1	
PA: S1 W2 E1	SA: S2 L1 I1 P2 M1 R2-4
<b>Context</b>	
EC: M2 L1	TC: A1 I1 T2
SS: I0	SC: I1 (vy)
LMS: 7000 (0 %SE)	ASIC: Many

**1028-C SCIENCE MANAGER (LOWER LEVEL)**

Plans, organises, directs and controls the scientific research and development activities of a small independent industrial, commercial or other business organisation or subsidiary company, or a State, regional or branch establishment, or a small semi-government authority or branch of a government department.

Performs duties as described under Master Title MANAGER. Makes decisions on less complex research and development matters within guidelines set by higher level scientific management. Administers implementation of projects as directed, using own initiative and knowledge to adjust current procedures or introduce new processes in order to optimise use of available resources and meet imposed deadlines. Supervises specific research projects and delegates tasks to subordinate scientific personnel as required. Assists with problems encountered, and checks for accuracy and completeness. Recommends or participates in recommendations on matters relating to personnel procedures such as staff selection, training and salaries.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3-4y(D) / (Dip)	IP: E5-10y
or FP: GE12y PSP4-7y(PG)	IP: E5-10y
HC: ERI	RQ: U1 D1 V1
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ: S1 N2 M2 W2
<b>Functions</b>	
MA: I2 A1 P1 D2 R2 M2 L1	
PA: S1 W2 E1	SA: S2 L1 I1 P2 M2 B1 R3-4
<b>Context</b>	
EC: M2 L1	TC: A1 I1 T2
SS: 9	SC: I1 (vy)
LMS: 15000 (0 %SE)	ASIC: Many

## MINOR GROUP 103

### MANAGEMENT AND ADMINISTRATIVE SUPPORT OCCUPATIONS

Management and Administrative Support Occupations are classified in the following unit groups.

- 1030 Accountants and Auditors
- 1031 Organisation and Methods Analysts
- 1032 Personnel and Related Officers
- 1033 Purchasing Officers and Buyers, Except Wholesale and Retail Trade
- 1034 Finance and Investment Officers and Agents
- 1035 Finance and Investment Support Occupations
- 1039 Other Management and Administrative Support Occupations

#### 1030 ACCOUNTANTS AND AUDITORS

This unit group covers occupations concerned with planning and administering accounting services, advising on accounting problems, and planning and conducting audits of accounts of industrial, governmental and other organisations and private persons.

**Entry Requirements** a degree/diploma/para-professional certificate in accounting or in economics, commerce or business studies with studies in accounting and related areas, or, in some cases, 4-8 years' experience. Accountants who satisfactorily complete a course of professional accounting studies and have 3 years' relevant work experience are referred to as **CHARTERED ACCOUNTANTS**. Accountants who have gained a business certificate in accounting and who have appropriate practical experience are referred to as **AFFILIATE ACCOUNTANTS**.

**Activities include** collecting, analysing and interpreting information relating to the financial standing, cost structures and trading effectiveness of manufacturing and commercial organisations; establishing, supervising and advising on budgetary, cost-control and other accounting systems in all types of organisations; conducting financial investigations; and preparing financial statements and other reports for the guidance of management decisions.

#### 1030-A ACCOUNTANT (GENERAL) Accounting Officer

Plans and administers accounting services and systems for, and advises on accounting matters of, enterprises, institutions, government organisations and private persons.

Plans, installs and advises on budgetary and accounting systems. Assists in the formulation of budget policies. Prepares and certifies financial statements for presentation to boards of directors, management, shareholders, or statutory or other bodies. Conducts financial investigations, prepares reports and, as appropriate, advises on such matters as the purchase or sale of businesses, possible mergers, new issues of share capital, suspected fraud, insolvency and bankruptcy, and taxation. Advises on, re-organises, devises and oversees the installation and implementation of accounting and related systems, including computerised systems. Generally, advises on matters requiring accounting knowledge.

May specialise in a particular type of accounting work and be designated accordingly, e.g.

Government Accountant  
Management Accountant  
Tax Accountant; Taxation Accountant  
Public Accountant

#### *Job Content Factors*

##### *Workers*

FP: GE12y PSP3y(D) / (Dip)	IP: T1y
or FP: GE10-12y PSP2y(PPC)	IP: T1y
HC: CES	RQ: U1 D1 V1

##### *Materials*

SM: D1 I2 P2	EQ: W2
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##### *Functions*

MA: A1 P2 D1 R2 M3 L2	
PA: S1 E1	SA: S2 L2 I2 B2 R3-4

*Context*

EC: L1  
SS: 8

TC: A2 I1 T2  
SC: 10 (10y)

LMS: 27500 (0 %SE)

ASIC: Many

**1030-B COST ACCOUNTANT**

Collects, analyses and interprets information on costs required by management in the planning and control of an organisation's income and expenditure.

Plans, installs and directs cost finding and reporting systems to inform management of total cost per unit of output, the relative importance of costs of raw materials, labour, energy, equipment, general overheads and other inputs, and the effect of changes in quantities and prices. Advises on such matters as: costs of under-utilisation of capacity, low productivity and excessive stocks; volumes of production and sales needed for profitability; and the likely return on new products, processes and services. Assists in automation and computerisation studies. Prepares reports which furnish the basis for decisions on these matters.

*Job Content Factors**Workers*

FP: GE12y PSP3y(D) / (Dip)  
or FP: GE10-12y PSP2y(PPC)  
HC: CES

IP: T1y  
IP: T1y  
RQ: U1 D1 V1

*Materials*

SM: D1 I2 P2

EQ: W2

*Functions*

MA: A1 P2 D1 R2 M3 L2  
PA: S1 E1

SA: S2 L2 B2 R3-4

*Context*

EC: L1  
SS: 5

TC: A2 I1 T2  
SC: 9 (10y)

LMS: 10000 (0 %SE)

ASIC: Many

**1030-C FINANCIAL ACCOUNTANT  
Accounting Officer (Finance)**

Prepares and analyses various accounting statements and reports reflecting financial results, and conducts special studies of accounting methods and practices.

Prepares income and balance sheet statements, consolidated statements and various other accounting statements. Analyses financial reports and records, making studies and/or recommendations relative to the accounting of reserves and assets. Reviews and verifies the accuracy of journal vouchers and of accounting classifications assigned to various records. Conducts special studies, and develops or recommends accounting methods and procedures. Instructs or assigns work to accounts clerks and other employees engaged in general accounting activities as appropriate.

*Job Content Factors**Workers*

FP: GE12y PSP3y(D) / (Dip)  
or FP: GE10-12y PSP2y(PPC)  
HC: CES

IP: T1y  
IP: T1y  
RQ: U1 D1 V1

*Materials*

SM: D1 I2 P2

EQ: W2

*Functions*

MA: A1 P2 D2 R2 M3 L2  
PA: S1 E1

SA: L1 P1 B2 R3-4

*Context*

EC: L1  
SS: 5

TC: A2 I1 T2  
SC: 10 (10y)

LMS: 10000 (0 %SE)

ASIC: Many

**1030-D AUDITOR**

Plans and conducts examinations and analyses of the accounting records of private persons, enterprises, institutions

and government organisations, and makes recommendations on improvements in accounting procedures or other desirable action.

Examines business and financial records and statements, material and equipment inventories, contracts, vouchers, bank statements, cancelled cheques, journals and ledgers, and other documents, to verify accuracy of accounting procedures and compliance with applicable regulations. Analyses data obtained regarding deficiencies in control, duplication of effort, extravagance and fraud. Reports to managements concerning scope of audit and financial conditions found.

May certify records and documents. May review the accounting, financial and other operations within an organisation in order to evaluate the effectiveness of accounting and managerial control, recommend improvements and be designated accordingly, e.g.

Internal Auditor

*Job Content Factors**Workers*

FP: GE12y PSP3y(D) / (Dip)  
or FP: GE10-12y PSP2y(PPC)  
HC: CIS

IP: T1-2y  
IP: T1y  
RQ: U1 D1 V1

*Materials*

SM: D1 I2 P2

EQ: W2

*Functions*

MA: A1 P2 D1 R2 M3 L2  
PA: S1 E1

SA: S1 B2 R3-4

*Context*

EC: M1 L1  
SS: 5

TC: A2 S2 I1 T2  
SC: 12 (10y)

LMS: 10000 (0 %SE)

ASIC: Many

**1030-E BURSAR**

Administers accounting and related services, and advises on the financial management of a university, college, school or other educational institution.

Receives funds in the form of tuition fees, government grants, and income on investments and donations, and disburses amounts owing for goods and services received. Plans, installs and advises on systems of budgetary control, salary administration and general accounting. Prepares and certifies financial statements for presentation to governing bodies. Advises on matters affecting the finances of the institution.

May be responsible for allocating educational allowances in a school. May be responsible for oversight of buildings, grounds, maintenance, office and security services.

*Job Content Factors**Workers*

FP: GE12y PSP3y(D) / (Dip)  
or FP: GE10-12y  
HC: ECS

IP: T1y  
IP: E4-8y  
RQ: D1 V1

*Materials*

SM: D2 P2 T1

EQ: W2

*Functions*

MA: A1 P2 D2 R2 M3 L2  
PA: S1 E1

SA: S2 L2 P2 B2 R3-4

*Context*

EC: L1  
SS: 7

TC: A1 I1  
SC: 10 (10y)

LMS: 500 (0 %SE)

ASIC: Many

**1030-Z ACCOUNTANTS AND AUDITORS nec**

This residual group covers accountants and auditors not elsewhere classified in Unit Group 1030.

### 1031 ORGANISATION AND METHODS ANALYSTS

This unit group covers occupations concerned with reviewing, analysing and improving business and organisational systems to assist management to operate with greater efficiency and effectiveness.

**Entry Requirements** a degree/diploma in commerce, accounting, economics, business studies or a related discipline and up to 3 years' experience; or, in some cases, 5-8 years' experience.

**Activities include** conducting organisational studies and evaluations; designing systems and procedures for new work processes; conducting work simplification and measurement studies; maintaining a forms and records management program; and preparing and maintaining systems and procedures manuals.

#### 1031-A METHODS AND PROCEDURES ANALYST Management Analyst

Conducts studies of organisational structures, methods, systems and procedures used in industrial departments of government, commercial, industrial or other establishments, assisting management to operate with greater efficiency and effectiveness, by performing any combination of the following duties.

Consults with managers, supervisors and other staff, and studies data, such as organisation and flow charts, records, reports, manuals and job descriptions. Undertakes or reviews work studies, and observes methods and procedures in action to determine existing procedures. Records and analyses data, identifies problems and considers solutions through implementation of measures, such as revision of work flow and redefinition of job functions and interrelationships, to eliminate redundancies and delays. Simplifies and standardises record keeping systems and assists in implementation of data processing or other types of equipment. Considers long term benefits and implementation costs of various alternatives, and prepares recommendations for improvements.

May assist management in implementing approved recommendations by preparing or revising instructions and procedural manuals, and instructing staff in new work methods.

##### Job Content Factors

###### Workers

FP: GE12y PSP3y(D) / (Dip) IP: T6m E3y  
HC: CIS RQ: U1 D1 V1

###### Materials

SM: D2 I1 P2 EQ: W2

###### Functions

MA: I2 A1 D2 R1 M2 L2  
PA: S1 W2 E1 SA: S1 I2 P2

###### Context

EC: M1 L1 TC: A1 I1 T2  
SS: 8 SC: 9 ( 6y)

LMS: 5000 (0 %SE)

ASIC: Many

#### 1031-B ORGANISATIONAL ANALYST

Conducts studies of departments and other units of establishment to identify organisational problems, and develops and recommends solutions.

Establishes problem areas and terms of reference through discussions with senior officials. Studies organisational objectives, delegation and exercise of authority, interrelationship of positions, organisational regulations,

instructions and reports, formal and informal lines of communication and control, and allocation of planning and development responsibilities. Prepares or examines organisational charts and other data, and interviews staff to validate data while conducting analysis. Identifies sources of, and makes recommendations to resolve organisational problems, by redefining boundaries and relationships for authority and accountability. Identifies procedural and other matters that may require detailed methods and systems analysis. Determines responsibility areas for reporting, control and appraisal, and suggests channels of co-ordination and communication.

May develop instructional and implementation material from studies to assist in staff retraining and orderly implementation of recommendations.

##### Job Content Factors

###### Workers

FP: GE12y PSP3y(D) / (Dip) IP: T6m E3y  
or FP: GE10-12y IP: T1y E5-8y  
HC: CIE RQ: U1 D1 V1

###### Materials

SM: D2 I1 P2 EQ: W2

###### Functions

MA: A1 D2 R2 M2 L2  
PA: S1 W2 E1 SA: S1 I2 P2

###### Context

EC: M1 L1 TC: A1 I1 T2  
SS: 8 SC: 10 ( 6y)

LMS: 3000 (0 %SE)

ASIC: Many

#### 1031-C RECORD SYSTEMS ANALYST Information Services Manager; Records Management Specialist; Records Manager

Analyses requirements and designs, or revises filing systems and records.

Reviews and analyses current record systems to assess efficiency and effectiveness, or consults with management to determine needs for new or revised systems. Studies new, mechanised or automated equipment, to assess and evaluate their potential in meeting management requirements. Identifies internal and external records retention requirements. Schedules removal and destruction of inactive records. Determines more economical storage methods, and devises procedures to protect vital legal and financial records or facilitate records retrieval. Develops most effective methods of preparing reports and determining lowest cost by reducing numbers to practical minimum. Prepares proposals for new systems, or writes reports incorporating recommendations for changes to existing systems and disposal of inactive records.

May write procedural instructions for use of records keeping personnel. May conduct training courses and advise staff during implementation programs.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3y(D) / (Dip)	IP: T6m E3y
HC: CIE	RQ: U1 D1 V1
<b>Materials</b>	
SM: D2 I1 P2 T2	EQ:
<b>Functions</b>	
MA: A1 P2 R2 M2 L2	
PA: S1 W2 E1	SA: S1 I2 P2
<b>Context</b>	
EC: M1 L1	TC: A1 I1
SS: 8	SC: 9 ( 5y)
LMS: 3000 (0 %SE)	ASIC: Many

**1031-D WORK STUDY OFFICER**

Analyses existing and proposed ways of doing work, develops easier and more effective work methods and establishes worker performance standards.

Conducts detailed review of specific operations and ensures that concise records are established with regard to methods and resource utilisation. Systematically studies the

implementation of work methods using standard techniques, and reports findings. Appraises work study data and advises on alternative methods which will result in operating improvements in either manpower, material or machinery utilisation. Sets up trials for the evaluation of new methods and advises on suitability of alternate programs. Participates in work measurement reviews and assists senior engineering and production staff in the planning, development and control of operations.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3y(D) / (Dip)	IP: T1y
HC: CES	RQ: U2 D1 V1
<b>Materials</b>	
SM: D2 I1 P2	EQ:
<b>Functions</b>	
MA: I2 A1 D2 R2 M2 L2	
PA: S1 W2 E1	SA: S1 I2 P2
<b>Context</b>	
EC: L1	TC: A1 I1
SS: 8	SC: 9 ( 5y)
LMS: 3000 (0 %SE)	ASIC: Many

**1032 PERSONNEL AND RELATED OFFICERS**

This unit group covers occupations concerned with carrying out policies, as directed by management, primarily related to personnel administration and industrial relations.

**Entry Requirements** a degree/diploma in an area such as a social science or personnel studies and up to 2 years' experience; or 3-4 years' experience.

**Activities include** representing management or labour in collective bargaining procedures; participating in programs of recruitment, selection, placement, training, welfare, safety, compensation, promotion and separation of employees; providing a placement service to employing bodies and job seekers; and interviewing and counselling job seekers to determine their suitability for employment, vocational training, rehabilitation programs and related manpower services.

**1032-A PERSONNEL OFFICER**

Provides personnel administrative services for commercial, industrial, government or other organisation, performing any combination of the following duties.

Confers with management representatives and department supervisors to determine personnel requirements, and carries out analyses as required to obtain detailed information about job specifications. Prepares job descriptions for positions in organisation and advertises vacancies. Interviews and tests applicants, selects most suitable candidates and settles terms of employment, or submits proposals to management. Interviews new employees to advise them on pay and other conditions of employment, such as hours of work, leave and attendance, and promotional opportunities. Provides advice, guidance and information to supervisors and employees on interpretation, application and implementation of personnel policies, procedures and regulations, concerning matters, such as employee performance, discipline, welfare and health, and training courses. Counsels employees to assist in solving personal problems or difficulties associated with work. Plans and organises training of employees by identifying kinds of training required, evaluating and selecting suitable training methods, and conducting courses, or recommending courses available from outside agencies. Resolves staff problems in

areas such as employee performance, absenteeism and grievances, by interviewing employees and supervisors and recommending or initiating remedial action. Assists in planning and organising services, such as canteens, first aid facilities and safety programs, pension schemes and other welfare and recreational facilities for employees. Maintains confidential personnel records.

May supervise clerical staff.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3y(D) / (Dip)	IP: T1y
HC: ESI	RQ: D1 V1
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ:
<b>Functions</b>	
MA: A2 D2 R2 M2 L3	
PA: S1 W2 E1	SA: S2 L1 I2
<b>Context</b>	
EC: L1	TC: A1 I1
SS: 6	SC: 10 (10y)
LMS: 5000 (0 %SE)	ASIC: Many

### 1032-B TRAINING OFFICER Staff Development and Training Officer

Plans internal courses to meet training needs and staff development requirements, and advises management of appropriate external courses for the organisation's staff.

Administers internal company training programs as directed, and ensures that follow-up advice or guidance and training materials are provided. Seeks out data on external training and staff development courses. Liaises with management in the planning of internal training courses and maintains contact with these executives as well as external training institutions to ensure that the training courses offered fulfil the organisation's needs. Maintains a record of employees undertaking part-time studies, counsels employees regarding the availability and suitability of specific segments of the organisation, and recommends and designs training courses to suit specific needs. Compiles training manuals and other training material, obtains and operates equipment, shows training films and prepares and shows visual aids, as appropriate, for training courses.

May prepare reports on the suitability of these courses and recommend employee attendance as appropriate. May offer sessions on career counselling to individuals or groups of employees.

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(D) / (Dip) IP: T2-6m E1y  
HC: SEI RQ: U1 D1 V1

##### Materials

SM: D2 I2 P1 T2 EQ:

##### Functions

MA: A2 D2 R2 M2 L3  
PA: S1 W2 E1 SA: S2 L2

##### Context

EC: L1 TC: A1  
SS: 9 SC: 10 (10y)

LMS: 8000 (0 %SE)

ASIC: Many

### 1032-C STAFF DEVELOPMENT OFFICER Personnel Officer (Manpower Planning and Development)

Develops, administers and co-ordinates management inventory appraisal, training, placement, counselling and related programs.

Plans, conducts and co-ordinates studies of existing management, manpower and possible replacements, and prepares specifications defining the human and technical requirements for new or changed management positions. Develops, directs and co-ordinates approved management training programs, including those of a specialised nature required to prepare individuals for specific positions. Discusses and/or counsels line management on the selection and placement of employees in management positions which make effective use of their qualifications and talents. Plans, conducts and co-ordinates a management performance appraisal program and advises line management on the use of appraisals. Conducts continuing investigation of management training activities in other companies, with a view toward incorporating desirable changes and innovations in own company program.

May develop management training manuals. May direct activities such as benefits administration and company house publications as appropriate.

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(D) / (Dip) IP: E2y  
HC: SEI RQ: U2 D1 V1

##### Materials

SM: D2 I2 P1 T2 EQ:

##### Functions

MA: A1 D2 R2 M2  
PA: S1 W2 E1 SA: S2 L2

#### Context

EC: L1 TC: A1 I1  
SS: 9 SC: 10 (10y)

LMS: 7000 (0 %SE)

ASIC: Many

### 1032-D INDUSTRIAL RELATIONS OFFICER

Assists in resolving disputes and grievances, conducts research into, develops, formulates and advises on industrial relations policies and problems on behalf of industrial or commercial enterprise, or trade union and employer's association or other organisation.

Undertakes negotiations at plant, State and/or national level on terms and conditions of employment, wage structures, employee status, work value claims and similar matters, and examines and attempts to resolve grievance issues; conducts research into such problems as methods of wage payment, and relationship between work and reward; undertakes or assists in the development, planning and formulation of industrial relations policies and programs, including facilities for communications, joint consultation between management and employees, and the recognised procedures for settling disputes; advises on the implementation of such policies and programs and on such matters as negotiating procedures, regulations relating to employment, national salary agreements, arbitration decisions and collective bargaining contracts; and advises generally on industrial relations matters.

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(D) / (Dip) IP: T2-6m E0-2y  
HC: ESC RQ: D1 V1

##### Materials

SM: D1 I2 P2 EQ:

##### Functions

MA: A2 D1 R2 M2 L3  
PA: S1 W2 E1 SA: S2 L2 P2

##### Context

EC: L1 TC: A1  
SS: 9 SC: 10 (10y)

LMS: 3500 (0 %SE)

ASIC: Many

### 1032-E EMPLOYMENT OFFICER Commonwealth Employment Service Officer; Employment Interviewer; Placement Officer; Recruitment Officer

Interviews applicants to determine their suitability for employment on basis of education, ability, interests and other employment factors.

Records information such as scholastic achievement, past employment history, and impressions gained from applicant during interview. Evaluates information to determine suitability for employment. Supplies information to applicant regarding nature of job vacancies, company and union policies, duties, responsibilities, working conditions, hours and pay, and promotional opportunities. Assesses applicants, notifies selected applicants of job offers, and makes recommendations for future hirings. Prepares permanent records of interviews with both successful and unsuccessful applicants. Discusses hiring policies with department heads or other supervisory staff to ensure effectiveness of selection techniques or recruitment programs. Observes jobs to obtain first hand information of job requirements.

May interview job applicants in an employment agency, and refer them to prospective employers for consideration. May travel to interview applicants for positions and exercise hiring authority. May be involved in the development and administration of manpower training program.

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(D) / (Dip) IP: T3-6m  
or FP: GE10-12y IP: T4m E3-4y  
HC: SEC RQ: U2 D1 V1

<i>Materials</i>		<i>Context</i>	
SM: D2 P1	EQ:	EC: L1	TC: A1 I1
<i>Functions</i>		SS: 7	SC: 9 ( 4y)
MA: A2 P1 R2 M3			
PA: S1 W2 E1	SA: L1 I2 P1	LMS: 9000 (0 %SE)	ASIC: Many

**1033 PURCHASING OFFICERS AND BUYERS, EXCEPT WHOLESALE AND RETAIL TRADE**

This unit group covers occupations concerned with buying goods, materials and services, for internal use or for further processing in semi-governmental or private sector businesses and other institutions, where the items purchased are not for resale.

**Entry Requirements** a para-professional certificate/associate diploma/diploma in a relevant area, plus 3-5 years' experience.

**Activities include** establishing purchase requirements of the organisation; interpreting specifications for goods and services; studying technical publications, documents and advertising material; interviewing suppliers or inviting tenders; conducting special buying missions and negotiating for prices; and establishing delivery schedules and performing other functions directly related to purchasing.

**1033-A PURCHASING OFFICER (BUSINESS SERVICES)  
Advertising Officer; Buyer (Time and Space)**

Purchases advertising space on billboards, in publications, or time on radio and television stations, and performs other business services for client.

Reads published data, such as program schedules and audience viewing ratings for radio and television stations, magazines and newspapers, and examines advertising cost quotations, to determine time and space availability and costs. Interviews or contacts representatives of radio and television stations, publishers and outdoor advertising agencies, to negotiate purchase of time and space, consistent with cost and budget limitations. Verifies all space and time contracts of media suppliers. Consults with media sales representatives as to product sales histories and new media opportunities. Records time spent on particular client services to determine costs to client. Assists media planning committee in selecting appropriate media forms for client's products.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP2-3y(Dip) / (Adip)	IP: T2-3m E3-5y
or FP: GE11y PSP2y(PPC)	IP: T2-3m E3-5y
HC: ECS	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: W2
<i>Functions</i>	
MA: I2 A2 P2 D1 R2 M3 L3	
PA: S1 E1	SA: L1 P2
<i>Context</i>	
EC: L1	TC: A1 I1 T2
SS: 8	SC: 9 ( 3y)
LMS: 3500 (0 %SE)	ASIC: Many

**1033-B PURCHASING OFFICER (FOOD AND RELATED PRODUCTS)  
Buyer (Food and Related Products)**

Purchases food and related products, such as livestock, fish, grain, fruit, vegetables and milk for internal use, consumption or processing by governmental, industrial or private sector businesses or organisations.

Reviews requisitions of establishments. Studies trade periodicals and other market information to determine product quantity and quality to be purchased. Contracts with farmers to raise or purchase products such as fruits, vegetables, grain, poultry, livestock, milk and wool. Inspects, grades and calculates live and dressed weight of livestock and fish, to determine value and yield. Negotiates with producers for purchase of products consistent with current market prices and approved establishment standards and budgetary limitations. Arranges delivery of purchase for specified date and destination. Keeps records of purchases.

May suggest methods of feeding, housing and milking cows, and refrigerated storage of milk, to improve quality and production of milk, and to comply with sanitation requirements. May study data regarding crop growing and suggest methods to improve quality and crop production. May give approval for accounts to be paid for purchases. May be designated according to product purchased, e.g.

- Purchasing Officer (Fish)
- Purchasing Officer (Fruit)
- Purchasing Officer (Livestock)
- Purchasing Officer (Milk)
- Purchasing Officer (Vegetables)

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP2-3y(Dip) / (Adip)	IP: T2-3m E3-5y
or FP: GE11y PSP2y(PPC)	IP: T2-3m E3-5y
HC: ECS	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ:
<i>Functions</i>	
MA: I2 A2 P2 D1 R2 M3 L3	
PA: S1 E1	SA: L1 P2 B2 R3-4
<i>Context</i>	
EC: L1	TC: A1 T2
SS: 8	SC: 9 ( 3y)
LMS: 900 (0 %SE)	ASIC: Many

**1033-C PURCHASING OFFICER (MATERIAL)  
Buyer (Material)**

Purchases machinery, equipment, raw materials, tools, parts,

fabrics, accessories, office and other supplies for internal use, consumption or processing by governmental, industrial or private sector businesses or organisations.

Reviews requisitions, studies suppliers' catalogues and current market data on varieties, quantities and prices available, to determine requirements. Interviews vendors to ascertain their ability to meet establishment's requirements for design, performance, cost, quality, quantity and delivery date. Reviews tenders or proposals from vendors, and negotiates with acceptable bidders for contracts, keeping within budgetary limitations. Discusses product defects with quality control or inspection personnel to determine source of problems and ensure defects are rectified by supplier, make necessary changes in specifications or change suppliers. Keeps informed of all new sources of supply for important materials. Keeps records of purchases.

May ensure invoices are correct with purchase orders and approve invoices for payment. May be designated according to type of merchandise purchased, e.g.

Buyer (Piece Goods)

Buyer (Wool)

Purchasing Officer (Office Equipment)

Buyer (Tobacco)

Purchasing Officer (Iron Ore)

#### Job Content Factors

##### Workers

FP: GE12y PSP2-3y(Dip) / (Adip)

or FP: GE11y PSP2y(PPC)

HC: ECS

IP: T2-3m E3-5y

IP: T2-3m E3-5y

RQ: D1 V1

##### Materials

SM: D2 P2 T1

EQ:

##### Functions

MA: I2 A2 P2 D1 R2 M3 L3

PA: S1 E1

SA: L1 P2 B2 R3-4

##### Context

EC: L1

SS: 8

TC: A1 T2

SC: 9 ( 3y)

LMS: 900 (0 %SE)

ASIC: Many

## 1034 FINANCE AND INVESTMENT OFFICERS AND AGENTS

This unit group covers finance and investment occupations.

**Entry Requirements** a diploma/degree in an appropriate area, or Year 10-12 and up to 5 years' experience.

**Activities include** providing financial advice to assigned clients; controlling, organising and directing the operations of a stockbroking firm; dealing profitably in the money markets within the guidelines established by senior management; administering estates, trusts and settlements; administering the acquisition, appraisal, management and disposal of real estate properties.

### 1034-A CORPORATE FINANCE OFFICER

Generates financial opportunities for the corporate finance department of a merchant bank and provides financial advice to assigned clients.

Assists clients, either existing or potential, with short, medium or long-term financial requirements and advises on matters relating to debt and equity capital formation, acquisition, financial reconstruction and other corporate matters. Prepares detailed proposals for submission to board of directors, seeking the merchant bank's involvement in such client matters in either a service or funding capacity, or both. Seeks participation in share purchases activities, underwritings or the provision of financial advice. Undertakes corporate studies on behalf of clients and detailed research into aspects of the financial market which are considered of value to the merchant bank and its existing and potential clients. Acts as agent, when necessary, between parties on matters relating to underwriting, including liaison with stockbrokers and other principals for the purpose of completing agreed arrangements. Ensures that all business activities conducted either personally or by subordinate staff comply with securities legislation.

May undertake supervisory activities such as described under Master Title SUPERVISOR MANAGER and be designated accordingly, e.g.

Senior Corporate Finance Officer

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(D)

HC: ESI

IP: T1-2y

RQ: U1

##### Materials

SM: D1 I2 P2

EQ:

##### Functions

MA: I2 A1 P2 D2 R3 M2 L2

PA: S1 E1

SA: A2 S1 P1

##### Context

EC: L1 L1

SS: 9

TC: A1

SC: 10 ( vy)

LMS: 2000-2250(0 %SE)

ASIC: Many

### 1034-B INVESTMENT ADVISER/DEALER

Provides financial counselling services to private clients of a stockbroking firm regarding the purchase and sale of securities.

Analyses financial background and future trends of stocks to provide recommendations to clients regarding investments. Uses the output of the firm's research department.

May make contact with clients by telephone and by private appointment. May make contact with clients socially.

#### Job Content Factors

##### Workers

FP: GE12y

HC: ESI

IP: T2-3y

RQ: S1 U1

##### Materials

SM: D1 P1

EQ:

##### Functions

MA: I2 A1 D1 R2 M2 L2

PA: S1 E1

SA: A1 S2 P1

##### Context

EC: L1 L1

SS: 8

TC: A1

SC: 10 ( vy)

LMS: 200-300 (0 %SE)

ASIC: Many

### 1034-C SECURITIES DEALER Stockbroker

Controls, organises and directs the operations of a stockbroking firm either as a partner or sole dealer.

Buys and sells stocks and bonds for individuals and organisations as representative of stock brokerage firm, applying knowledge of securities, market conditions, government regulations and financial circumstances of customers; gives information and advice regarding stocks, bonds, market conditions and history and prospects of various corporations to prospective customers, based on interpretation of data from securities reports, financial periodicals and stock-quotation viewer-screen, and persuades customers to buy or sell specific securities according to their financial needs. Records and transmits buy or sell orders, calculates and records costs of transactions, develops lists of selected investments for customers, and of prospective customers for additional business.

May perform duties described under Master Title SUPERVISOR MANAGER in the operations of a stockbroking firm. May specialise in a specific operation of a large firm such as institutional dealing, private client dealing, fixed interest dealing, mortgage broking or option dealing, and may be designated accordingly, e.g.

Fixed Interest Securities Dealer  
Inter-Company Money Market Dealer

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3y(D)	IP: T3y E5y
HC: ESI	RQ: S1 U1
<b>Materials</b>	
SM: D1 P1	EQ:
<b>Functions</b>	
MA: I2 A1 D2 R2 M2 L2	
PA: S1 E1	SA: A2 S1 P1
<b>Context</b>	
EC: L1 L1	TC: A1
SS: 7	SC: 8 (vy)
LMS: 600 (0 %SE)	ASIC: Many

### 1034-D DEALER, MONEY MARKET

Deals profitably in either the official or unofficial money markets within the guidelines established by senior management.

Deals in the money market, negotiating with both borrowers and lenders for the purpose of executing profitable financial transactions. Maintains regular contact with clients as well as market lenders and borrowers to ensure continual flow of business transactions. Oversees the operation of paper work and the maintenance of a book associated with the transaction of deals. Ensures that all documents and securities passed between clients and company are in accordance with those agreed and that transactions are on a timely basis. Ensures that all business activities conducted either personally or by subordinate staff comply with securities legislation.

May perform duties described under Master Title SUPERVISOR MANAGER within the company and may be designated accordingly, e.g.

Senior Dealer, Money Market

#### Job Content Factors

<b>Workers</b>	
FP: GE12y	IP: E4y
HC: ESI	RQ: U1
<b>Materials</b>	
SM: D1 P2	EQ:
<b>Functions</b>	
MA: A1 D2 R2 M2 L2	
PA: S1 E1	SA: A1 S2 P1

#### Context

EC: L1 L1	TC: A1
SS: 5	SC: 12 (vy)
LMS: 250 (0 %SE)	ASIC: Many

### 1034-E TRUST OFFICER

Administers estates, trusts and settlements.

Locates and prepares inventories of assets and liabilities, directs preparation of probate papers, income tax and State death duty returns, and attends to collection and realisation of assets, payment of debts, duties and taxes. Satisfies all statutory requirements, establishes beneficial entitlements and attends to distribution of assets. Maintains probate and trust files, invests trust funds and generally has responsibility for the administration of accounts under his/her control.

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3y(D) / (Dip)	IP: E3y
HC: ECS	RQ: D1 V1
<b>Materials</b>	
SM: D1 I2 P2	EQ: W2
<b>Functions</b>	
MA: P2 R2 M2 L2	
PA: S1 E1	SA: S2 L2 I2 P1
<b>Context</b>	
EC: L1	TC: A1 I1
SS: 9	SC: 10 (vy)
LMS: 10000 (0 %SE)	ASIC: Many

### 1034-F PROPERTIES INVESTMENT MANAGER

Administers the acquisition, appraisal, management and disposal of real estate properties.

Monitors and researches the properties market and recommends appropriate policy for the maximisation of return on funds allocated for property investment. Undertakes detailed analyses in determining viable property investment opportunities and submits recommendations to the trustees for purchase approvals. Instructs consultants, valuers, solicitors and other advisers as required to minimise internal staff needs, and handles all functions relating to property disposal. Negotiates purchase terms and supervises documentation relating thereto. Finalises and executes settlement for properties and services relating to them. Supervises staff responsible for property accounting, custody of documents and titles, insurance requirements, statutory returns and property management. Determines a desirable level of investment over the following three to five years and prepares details of current cash flow utilisation in property investments for twelve months ahead. Ensures that activities related to the function comply with relevant legislation to avoid prosecution, and ensures legal demands and ethical standards are complied with in order to present a favourable image to current and potential clients.

#### Job Content Factors

<b>Workers</b>	
FP: GE12y	IP: E0-15y
HC: ECI	RQ: U2 D1 V1
<b>Materials</b>	
SM: D1 I2 P2	EQ:
<b>Functions</b>	
MA: A2 R2 M2 L2	
PA: S1 W2 E1	SA: L1 I2 P1 B1 R3-4
<b>Context</b>	
EC: L1	TC: A1 I1
SS: 7	SC: 10 (vy)
LMS: 10000 (0 %SE)	ASIC: Many

**1034-G DEALER (GENERAL COMMODITIES)**

Co-ordinates the activities of merchants who buy and sell commodities other than stocks and shares, on behalf of producers.

Performs duties as described under Master Title SUPERVISOR MANAGER. Formulates policy of firm, and informs and directs staff to advise clients concerning changes which may affect transactions, such as crop fluctuation, government policy, production, consumption, foreign and domestic production or crop conditions and price differentials.

May specialise in a particular product and be designated accordingly, e.g.

Grain Broker

Hide and Skin Merchant

**Job Content Factors****Workers**

FP: GE10-12y

HC: ESI

IP: E5y

RQ:

**Materials**

SM: D1 P1

EQ:

**Functions**

MA: I2 A2 P2 D2 R3 M2 L2

PA: S1 E1

SA: A1 S2 M1 R3-4

**Context**

EC: L1 L1

SS: 8

TC: A1

SC: 10 (vy)

LMS: 50 (0 %SE)

ASIC: Many

**1035 FINANCE AND INVESTMENT SUPPORT OCCUPATIONS**

This unit group covers occupations concerned with a variety of financial support functions.

**Entry Requirements** a para-professional certificate in accounting, commerce, economics or a related area and 3-5 years' experience.

**Activities include** overseeing and planning banking and related operational activities; inquiring into the financial standing of persons; and recommending loans and keeping records of arrears of clients.

**1035-A BRANCH ACCOUNTANT (FINANCIAL INSTITUTION)**

Administers branch bank, building society, credit union and other financial institution accounting systems and related operational activities.

Plans office work flow and prepares regular reports of financial institution's accounting activities. Makes periodic reviews of books to ensure accounting procedures conform to established standards, and submits reports to manager. Conducts staff meetings to discuss and prepare recommendations on procedural problems and to implement corrective measures. Ensures high standards are maintained relating to customer service, securities delivery, clearing of funds and security of financial institution. Assists in selection, training and appraisal of junior employees.

May grant or approve loans within limits set by institution's regulations.

**Job Content Factors****Workers**

FP: GE12y PSP2y(PPC)

HC: CES

IP: T6-12m E5y

RQ: U2 D1 V1

**Materials**

SM: D2 P1 T2

EQ: W2

**Functions**

MA: A1 P2 D1 R2 M2 L2

PA: S1 W2 E1

SA: S2 L2 I2 P1 B1 R3-4

**Context**

EC: L1

SS: 7

TC: A1 I1 T2

SC: 9 (5y)

LMS: 6500 (0 %SE)

ASIC: Many

**1035-B CREDIT OFFICER**

Examines, evaluates and processes applications for credit or loans, and authorises or recommends their approval.

Analyses applicant's financial status, references and credit rating to determine feasibility of granting loan requests. Corresponds with or interviews applicants or creditors to

resolve questions regarding loan application. Approves loans within specified limits or refers loans to manager or loan committee for approval. Analyses applicant's financial problems and adjusts loan agreement to restore loan to good standing. Prepares reports of delinquent accounts that cannot be collected. Keeps record of arrears of mortgage instalment payments and prepares routine letters concerning them. Prepares statement of overdue mortgage and loan accounts arranged according to amounts owing, time overdue, and credit rating of client, and forwards statements to solicitors for legal action to recover bank's equity. Answers inquiries concerning loan balances, taxes and penalties from credit bureaus, finance companies and banks regarding credit experience with customers.

May specialise in reviewing applications for mortgages. May be designated according to type of activity and area of work, e.g.

Credit Analyst

Loan Analyst

**Job Content Factors****Workers**

FP: GE12y PSP2y(PPC)

HC: CIS

IP: T6-12m E3-5y

RQ: U2 D1 V1 A1

**Materials**

SM: D1 I2 P2

EQ: W2

**Functions**

MA: P1 R2 M3 L2

PA: S1 E1

SA: L1 I2 P1

**Context**

EC: L1

SS: 7

TC: A1

SC: 9 (3y)

LMS: 8500 (0 %SE)

ASIC: Many

**1035-Z FINANCE AND INVESTMENT SUPPORT OCCUPATIONS nec**

This residual group covers finance and investment support occupations not elsewhere classified, e.g.

Foreign Exchange Trader

International Banking Officer

Passenger and Freight Rates Analyst

### 1039 OTHER MANAGEMENT AND ADMINISTRATIVE SUPPORT OCCUPATIONS

This residual unit group covers management and administrative support occupations not elsewhere classified in Minor Group 103.

**Activities include** planning, organising and carrying out public relations and research programs; organising and negotiating activities on behalf of trade union members, performing artists and gift-supported institutions; designing, planning, implementing and controlling medical records and related systems and services; administering office services; and designing and developing forms.

#### 1039-A PUBLIC RELATIONS OFFICER Information Officer; Publicity Officer

Plans, organises and carries out a program of information designed to influence the public favourably towards the employer's organisation, products or services, by performing any combination of the following duties.

Plans, organises and co-ordinates public relations activities, explains requirements, and assigns tasks to own or free-lance researchers and publicity writers. Prepares news releases. Commissions or obtains photographs or other illustrative material. Appraises and revises material submitted by publicity writers, photographers, illustrators and others. Selects written material, photographs and illustrations most likely to create favourable publicity in mass media. Undertakes and commissions public opinion research, analyses it and plans action campaigns accordingly. Organises special exhibitions, seminars, entertainment, competitions, and social functions to promote goodwill and favourable publicity. Represents employer and arranges interviews in dealings with press, television, radio and other publicity media, and attends business, social and other functions.

May be designated according to specific area of public relations work, e.g.

Press Officer	Promotions Officer
Publications Officer	Functions Officer

May be concerned with providing information to employees within an organisation regarding requirements and preferences of public, and be designated accordingly,

Marketing Officer

##### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3y(D) / (Dip)	IP: E5y
HC: PPP	RQ: U2 D1 V1
<i>Materials</i>	
SM: D2 I1 P2	EQ:
<i>Functions</i>	
MA: A2 D1 R2 M2	
PA: S1 W2 E1	SA: L1 I2 P1 B2 R3-4
<i>Context</i>	
EC: L1	TC: A1 I1 T2
SS: 9	SC: 10 ( 7y)
LMS: 4550 (0 %SE)	
ASIC: Many	

#### 1039-B RESEARCH OFFICER

Provides investigation and research into matters of management for the implementation of policy and of effective management programs.

Obtains details of anticipated action from management, and investigates factual aspects by obtaining statistical information, legal implications, financial requirements and economic feasibility. Investigates current procedures and policies to

inform management of their suitability. Reports detailed results of findings and the various applications of them, and offers suggestions and recommendations based on information obtained.

May specialise in a particular area of research and be designated accordingly, e.g.

Research Officer, Economic	Research Officer, Financial
Research Officer, Market	Research Officer, Statistical

##### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3y(D) / (Dip)	IP: T6m
HC: S1A	RQ: U1 D1 V1
<i>Materials</i>	
SM: D1 I2 P2	EQ:
<i>Functions</i>	
MA: I2 A1 P2 R2 M2 L2	
PA: S1 E1	SA: A2 S2
<i>Context</i>	
EC: L1	TC: A1 T2
SS: 7	SC: 10 (vy)
LMS: 50000 (0 %SE)	
ASIC: Many	

#### 1039-C UNION ORGANISER Trade Union Organiser

Performs general organising duties for a trade union and negotiates on behalf of members to redress grievances.

Investigates problems of members relating to issues such as leave entitlements, conditions of work and employment tenure. Negotiates on such matters on behalf of an individual member or group of members. Collects union dues from members.

##### Job Content Factors

<i>Workers</i>	
FP: GE12y	IP: T6m E5y
HC: ESC	RQ: P2 D1 V1
<i>Materials</i>	
SM: D2 I2 P1	EQ:
<i>Functions</i>	
MA: A1 D1 R1 M2 L2	
PA: S2 W1 E1	SA: L1 I1 P2 B2 R3-4
<i>Context</i>	
EC: T2 L1	TC: A2 I1 T1
SS: 6	SC: 9 (vy)
LMS: 1110 (0 %SE)	
ASIC: Many	

#### 1039-D THEATRICAL AGENT

Administers business affairs of entertainers, and negotiates contracts including financial arrangements with managements of motion picture, television and radio studios, theatrical producers and management personnel concerned with other places of entertainment.

Negotiates with officials of the appropriate union on behalf of performing artists or troupe. Manages business details of tours and engagements. Advises clients concerning contracts, publicity, wardrobe and effective presentation of act, using knowledge of show business. Represents client in public contacts, such as handling fan mail, telephone inquiries, and requests for personal appearances from clubs and charitable organisations.

May obtain reservations for transportation and hotel accommodation.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP:
HC: ESC	RQ: D1 V1
<i>Materials</i>	
SM: D2 I1 P2 T2	EQ: W2
<i>Functions</i>	
MA: I1 A2 D1 R2 M2 L2	
PA: S1 W2 E1	SA: S1 P2
<i>Context</i>	
EC: L1	TC: S1 T2
SS: V	SC: V
LMS: 3000 (0 %SE)	ASIC: Many

### 1039-E FUND-RAISING CONSULTANT Campaign Consultant; Campaign Organiser

Assists chief executive of gift-supported institutions, agencies and enterprises in administration of fund-raising activities.

Gathers and assesses facts and opinions concerning fund-raising potential of client institutions, and analyses information according to principles of successful fund-raising. Prepares workable plan, operating schedule, terms of reference, goals and quotas for volunteer organisation and suggests strategies for reaching goals and quotas to chief executive. Implements approved strategies. Directs workers engaged in development, assignment and canvas control of lists of prospective donors, and directs the preparation of the statement of fund-raising case and of other essential materials used to communicate the statement to campaign workers and prospective donors. Briefs volunteer leaders concerning their responsibilities and trains volunteer workers in effective face-to-face soliciting techniques. Directs activities of campaign headquarters, such as supervision of treasury procedures and setting up of controls for all expenditures.

May direct fund-raising activities of nation-wide benevolent organisation. May co-ordinate fund-raising operation with those of similar organisations, or with sub-units in numerous communities. May approach individuals or community groups for donations.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y	IP: E0-15y
HC: SEC	RQ: U2 D1 V1
<i>Materials</i>	
SM: D2 I1 P2	EQ:
<i>Functions</i>	
MA: I2 A1 P2 D1 R2 M2 L2	
PA: S1 E1	SA: L1 I2 P1 B2 R3-4
<i>Context</i>	
EC: T2 L1	TC: A1 I1
SS: V	SC: V
LMS: 100 (0 %SE)	ASIC: Many

### 1039-F TRADING FLOOR OPERATOR (STOCKBROKING)

Buys and sells stocks and other securities listed on the stock exchange according to the instructions of the firm's clients.

Acts as agent of securities dealer. Liaises by telephone with interstate agents, the firm's investment advisers, dealers and clients regarding the execution of specific orders.

#### Job Content Factors

<i>Workers</i>	
FP: GE10-12y	IP: T3m
HC: ESI	RQ: S1 U1
<i>Materials</i>	
SM: D1 P2	EQ:
<i>Functions</i>	
MA: D3 R3 M3 L2	
PA: S2 W1 E1	SA: A2 S1 P2
<i>Context</i>	
EC: L1 L1	TC: A1
SS: 2	SC: 10 (vy)
LMS: 200-300 (0 %SE)	ASIC: Many

### 1039-G MEDICAL RECORD ADMINISTRATOR Manager, Medical Record Services; Medical Clerk; Medical Record Librarian; Medical Record Officer

Designs, plans, implements and controls medical records, medical record systems and medical information services, and administers and organises medical record department and medical secretarial and other related services.

Designs and revises medical record forms; designs and maintains computer and other records systems and advises on their usage; administers recruitment and training of medical record staff; and organises work flow, budget preparation, equipment ordering, medical transcription, ward clerk service and inservice training for medical typists and ward clerks. Controls retrieval of information and statistical studies, conducts training of medical record students and educational activities of medical record staff and other hospital personnel. Facilitates communication between hospital department and health providers as well as to patients, and participates in committees concerned with medical records. Assists with surveys, projects and evaluative studies in the hospital/health field.

May assist with other patient services such as: outpatients, accident and emergency registration and follow-up appointments; waiting lists for admission; reception and registration of inpatients; patient investigation and treatment appointments; patient location and condition; and patient transportation and appliance services. May teach medical record administration. May act as adviser/consultant on matters related to medical records.

May specialise in a particular field of medical record administration and be designated accordingly, e.g.

Health Data Administrator  
Medical Record Adviser  
Medical Record Consultant  
Research Assistant, Medical Records

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP2-3y(Dip) / (Adip)	IP: T3-6m
HC: CIS	RQ: U2 D1 V1
<i>Materials</i>	
SM: D1 P2	EQ:
<i>Functions</i>	
MA: I2 A2 P2 D1 R2 M3 L3	
PA: S1 W2 E1	SA: S2 L1 B2 R3-4
<i>Context</i>	
EC: L1	TC: A1 I1 T2
SS: 4	SC: 9 (vy)
LMS: 600 (0 %SE)	ASIC: Many15

### 1039-H ADMINISTRATIVE OFFICER Administrative Assistant

Administers office services and related activities such as personnel, budget preparation and control, accommodation and records maintenance.

Co-ordinates office services, and develops and supervises programs for the maximum utilisation of personnel, equipment and accommodation. Supervises and co-ordinates activities of office workers engaged in clerical and other

activities, such as typing and operation of accounting machines. Plans and supervises the maintenance and alteration of office areas and equipment, and the layout of office facilities. Negotiates the purchase of office supplies and equipment, and oversees the employment and training of office personnel.

May be in charge of office work in a specialised section of the accounting department responsible for the preparation of budgets. May be responsible for a specific section of commercial functions such as administration of share register. May specialise in investigating the most effective and economic use of office space and equipment, and planning and negotiating the acquisition of extra accommodation. May perform administrative duties in a specialised setting and be designated accordingly, e.g.

Administrative Officer (Educational Institution)

Administrative Officer (Hospital)

#### Job Content Factors

##### Workers

FP: GE12y PSP2y(PPC) IP: T6m E2-5y  
or FP: GE12y PSP3y(D) / (Dip) IP: T6m E2-5y  
HC: ESC RQ: D1 V1

##### Materials

SM: D1 P2 EQ:

##### Functions

MA: I2 A2 P2 D1 R2 M2  
PA: S1 W2 E1 SA: S2 L1 B1 R3-4

##### Context

EC: L1 TC: A1 I1 T2  
SS: 6 SC: 10 (vy)

LMS: 20000 (0 %SE)

ASIC: Many

### 1039-I FORMS ANALYST AND DESIGNER

Analyses requirements, and designs and develops business or other forms for use in government, commercial or industrial establishments.

Discusses purpose of new forms with management and reviews systems or procedures in which forms are to be used. Controls classification and cataloguing of forms. Analyses form requirements, determines data to be entered on form and best arrangement of data, and considers possible combination and standardisation of existing forms including forms for microfilming/facsimile transmission and computer related multi-part forms. Determines design specifications such as: sequence of data; arrangement of space; size, kind and colours of paper; and size and style of printing or type to be used. Prepares sketches of proposed forms on graph paper or design sheets and submits design for approval. Prepares detailed specifications for manufacture of approved forms.

May prepare written instructions on use of form. May prepare special charts to show the role of the form in various stages of the system. May specialise in a particular forms management activity and be designated accordingly, e.g.

Forms Analyst

Forms Designer

#### Job Content Factors

##### Workers

FP: GE11y IP: T1m E2y  
HC: CAE RQ: U2 D1 V1 A2

#### Materials

SM: D2 I1 P2 T2 EQ: S1 M1 W2

#### Functions

MA: P2 R3 M3  
PA: P2 S1 E1 SA: S1 L2 P2 B2 R3-4

#### Context

EC: M2 L1 TC: A1 T1  
SS: 6 SC: 8 (vy)

LMS: 10000 (0 %SE)

ASIC: Many

### 1039-J TRAINEE MANAGER Cadet Manager

Receives instruction and training in preparation for entry to the occupation of manager in a retail, financial or other business organisation.

Commences by performing the routine duties of a junior assistant and progresses through more complex duties involving supervision of staff and control of functional work areas.

May be required to study for a qualification related to the duties performed. May specialise in training for a particular area of management and be designated accordingly, e.g.

Trainee Manager, Banking; Cadet Manager, Banking

Trainee Manager, Fast Food Chain

Trainee Manager, Financial; Cadet Manager, Financial

Trainee Manager, Retail Outlet

Trainee Manager, Sales and Marketing; Cadet Manager, Sales and Marketing

Trainee Manager, Supermarket

Trainee Manager, Supply and Distribution

#### Job Content Factors

##### Workers

FP: GE10-12y IP: T3-5y  
HC: ECI RQ: Q2 D2

##### Materials

SM: D1 I2 P2 T2 EQ: N1 K2

##### Functions

MA: I2 P2 D2 R2 M2 L2  
PA: U1 H2 S2 W2 E3 SA: L1 I2 B2 R4

##### Context

EC: L1 L1 TC: A1 I1 R2 T1  
SS: 2 SC: 7 (7y)

LMS: ? (0 %SE)

ASIC: Many

### 1039-Z MANAGEMENT AND ADMINISTRATIVE SUPPORT OCCUPATIONS nec

This residual group covers management and administrative support occupations not elsewhere classified in Minor Group 103, e.g.

Booking Agent

Conference Co-ordinator

Franchise Outlet Promoter

Producer's Assistant; Production Assistant (Television, Films and Stage)

## **SUPER GROUP 2**

### **Professional and Related Occupations**

Professional and Related Occupations are classified in the following major groups.

- 20 Natural Science and Technology Occupations
- 21 Social Science Occupations
- 22 Religious Observance Occupations
- 23 Teaching and Related Occupations
- 24 Health Occupations



## **MAJOR GROUP 20**

### **NATURAL SCIENCE AND TECHNOLOGY OCCUPATIONS**

Natural Science and Technology Occupations are classified in the following minor groups.

- 200 Physical Science Occupations
- 201 Life Science Occupations
- 202 Mathematicians and Statisticians
- 203 Data Processing Occupations
- 204 Engineering Occupations
- 205 Architecture, Building and Surveying Occupations

#### *Related Occupations*

- Major Group 23 : Teaching and Related Occupations
- Major Group 10 : Managerial and Administrative Occupations

# 20 NATURAL SCIENCE AND TECHNOLOGY OCCUPATIONS

## 200 PHYSICAL SCIENCE OCCUPATIONS

- 2000 CHEMISTS**  
 2000-A Chemist (General)  
 2000-B Research Chemist  
 2000-C Agricultural Chemist  
 2000-D Analytical Chemist  
 2000-E Food Chemist  
 2000-Z Chemists nec
- 2001 EARTH SCIENTISTS**  
 2001-A Geologist  
 2001-B Geophysicist  
 2001-C Meteorologist  
 2001-D Physical Geographer
- 2002 PHYSICISTS**  
 2002-A Physicist (General)  
 2002-B Astronomer  
 2002-C Atomic Physicist  
 2002-D Nuclear Physicist  
 2002-E Solid-State Physicist  
 2002-Z Physicists nec
- 2003 MATERIALS SCIENTISTS AND METALLURGISTS**  
 2003-A Materials Scientist (Non-Metals)  
 2003-B Metallurgist
- 2004 PHYSICAL SCIENCE TECHNICAL OFFICERS**  
 2004-A Technical Officer, Chemistry  
 2004-B Technical Officer, Meteorological  
 2004-C Technical Officer, Physics  
 2004-D Technical Officer, Textiles  
 2004-Z Physical Science Technical Officers nec
- 2005 PHYSICAL SCIENCE TECHNICIANS**  
 2005-A Chemistry Technician  
 2005-B Geology Technician  
 2005-C Geophysics Technician  
 2005-D Hydrological Technician  
 2005-E Physics Technician  
 2005-Z Physical Science Technicians nec
- 2009 OTHER PHYSICAL SCIENCE OCCUPATIONS**  
 2009-A Environmental Scientist  
 2009-B Meteorological Observer  
 2009-Z Physical Science Occupations nec

## 202 MATHEMATICIANS AND STATISTICIANS

- 2020 MATHEMATICIANS AND STATISTICIANS**  
 2020-A Mathematician (General)  
 2020-B Research Mathematician  
 2020-C Actuary  
 2020-D Applied Statistician  
 2020-E Mathematical Statistician  
 2020-F Operations Research Analyst  
 2020-Z Mathematicians and Statisticians nec

## 201 LIFE SCIENCE OCCUPATIONS

- 2010 AGRICULTURAL SCIENTISTS**  
 2010-A Agricultural Extension Officer  
 2010-B Agricultural Scientist  
 2010-C Animal Scientist  
 2010-D Farm Consultant  
 2010-E Plant Scientist  
 2010-F Soil Scientist  
 2010-Z Agricultural Scientists nec
- 2011 VETERINARIANS**  
 2011-A Veterinarian
- 2012 BIOLOGICAL SCIENTISTS**  
 2012-A Anatomist  
 2012-B Aquatic Biologist  
 2012-C Biochemist  
 2012-D Biophysicist  
 2012-E Botanist  
 2012-F Ecologist  
 2012-G Entomologist  
 2012-H Geneticist  
 2012-I Microbiologist  
 2012-J Parasitologist  
 2012-K Pharmacologist  
 2012-L Physiologist  
 2012-M Zoologist  
 2012-Z Biological Scientists nec
- 2013 FORESTERS**  
 2013-A Forester
- 2014 LIFE SCIENCE TECHNICAL OFFICERS**  
 2014-A Technical Officer, Agricultural  
 2014-B Technical Officer, Biology  
 2014-C Technical Officer, Microbiology  
 2014-Z Life Science Technical Officers nec
- 2015 LIFE SCIENCE TECHNICIANS**  
 2015-A Agricultural Field Technician  
 2015-B Animal Technician  
 2015-C Botanical Technician  
 2015-D Forestry Technician  
 2015-Z Life Science Technicians nec
- 2019 OTHER LIFE SCIENCE OCCUPATIONS**  
 2019-A Veterinary Nurse  
 2019-B Park Ranger  
 2019-C Laboratory Assistant  
 2019-Z Life Science Occupations nec

## 203 DATA PROCESSING OCCUPATIONS

- 2030 DATA PROCESSERS**  
 2030-A Computer Programmer  
 2030-B Computer Scientist  
 2030-C Systems Analyst  
 2030-D Systems Programmer  
 2030-E Trainee Computer Programmer  
 2030-Z Data Processers nec

## 204 ENGINEERING OCCUPATIONS

- 2040 CHEMICAL ENGINEERS**  
 2040-A Chemical Engineer (Design)  
 2040-B Chemical Engineer (Production)  
 2040-C Chemical Engineer (Research)  
 2040-Z Chemical Engineers nec
- 2041 CIVIL ENGINEERS**  
 2041-A Civil Engineer (Construction)  
 2041-B Civil Engineer (Design)  
 2041-C Civil Engineer (Operations)  
 2041-D Civil Engineer (Research)  
 2041-Z Civil Engineers nec
- 2042 ELECTRICAL ENGINEERS**  
 2042-A Electrical Engineer (Research)  
 2042-B Communications Engineer  
 2042-C Electrical Power Engineer  
 2042-D Electronic Engineer  
 2042-Z Electrical Engineers nec
- 2043 MECHANICAL ENGINEERS**  
 2043-A Mechanical Engineer (Research)  
 2043-B Mechanical Engineer (Construction)  
 2043-C Mechanical Engineer (Design)  
 2043-D Mechanical Engineer (Operations)  
 2043-E Mechanical Engineer (Production)  
 2043-Z Mechanical Engineers nec
- 2044 MATERIALS AND METALLURGICAL ENGINEERS**  
 2044-A Materials Engineer  
 2044-B Metallurgical Engineer
- 2045 ENGINEERS (OTHER)**  
 2045-A Aeronautical Engineer  
 2045-B Agricultural Engineer  
 2045-C Naval Architect  
 2045-D Mining Engineer  
 2045-Z Engineers (Other) nec
- 2046 ENGINEERING DRAFTING AND OTHER TECHNICAL OFFICERS**  
 2046-A Technical Officer, Civil Engineering  
 2046-B Technical Officer, Electrical Engineering  
 2046-C Technical Officer, Electronics Engineering  
 2046-D Technical Officer, Mechanical Engineering  
 2046-E Technical Officer, Process Control  
 2046-F Draftsman/woman, Civil Engineering  
 2046-G Draftsman/woman, Structural Engineering  
 2046-H Draftsman/woman, Electrical Engineering  
 2046-I Draftsman/woman, Electronics Engineering  
 2046-J Draftsman/woman, Mechanical Engineering  
 2046-Z Engineering Drafting and Other Technical Officers nec
- 2047 ENGINEERING TECHNICIANS AND DRAFTING ASSISTANTS**  
 2047-A Engineering Technician, Civil  
 2047-B Engineering Technician, Electrical  
 2047-C Engineering Technician, Electronics  
 2047-D Engineering Technician, Mechanical  
 2047-E Drafting Assistant, Civil Engineering  
 2047-F Drafting Assistant, Electrical Engineering  
 2047-G Drafting Assistant, Electronics Engineering  
 2047-H Drafting Assistant, Mechanical Engineering  
 2047-Z Engineering Technicians and Drafting Assistants nec
- 2049 OTHER ENGINEERING OCCUPATIONS**  
 2049-A Engineering Tracer  
 2049-B Engineering Trainee  
 2049-C Engineering Technical Officer Trainee  
 2049-D Engineering Technician Trainee  
 2049-Z Engineering Occupations nec

## 205 ARCHITECTURE, BUILDING AND SURVEYING OCCUPATIONS

- 2050 ARCHITECTURE OCCUPATIONS**  
 2050-A Architect  
 2050-B Landscape Architect  
 2050-Z Architecture Occupations nec
- 2051 BUILDING OCCUPATIONS (PROFESSIONAL)**  
 2051-A Builder, Professional  
 2051-B Quantity Surveyor  
 2051-Z Building Occupations (Professional) nec
- 2052 CARTOGRAPHERS AND SURVEYORS**  
 2052-A Cartographer  
 2052-B Surveyor
- 2053 ARCHITECTURE, BUILDING AND SURVEYING DRAFTING AND OTHER TECHNICAL OFFICERS**  
 2053-A Technical Officer, Architectural  
 2053-B Draftsman/woman, Architectural  
 2053-C Technical Officer, Building  
 2053-D Technical Officer, Cartography  
 2053-E Draftsman/woman, Surveying  
 2053-F Technical Officer, Surveying  
 2053-Z Architecture, Building and Surveying Drafting and Other Technical Officers nec
- 2059 OTHER ARCHITECTURE, BUILDING AND SURVEYING OCCUPATIONS**  
 2059-Z Architecture, Building and Surveying Occupations nec

## MINOR GROUP 200

### PHYSICAL SCIENCE OCCUPATIONS

Physical Science Occupations are classified in the following unit groups.

2000	Chemists
2001	Earth Scientists
2002	Physicists
2003	Materials Scientists and Metallurgists
2004	Physical Science Technical Officers
2005	Physical Science Technicians
2009	Other Physical Science Occupations

#### 2000 CHEMISTS

This unit group covers occupations concerned with conducting pure research to extend knowledge in chemistry and applied research to develop new or improved materials and substances for commercial purposes.

**Entry Requirements** a degree/diploma in science with major studies in chemistry; occupations involving research normally require a higher degree.

**Activities include** conducting pure research to extend knowledge in chemistry; conducting applied research to develop new or improved materials and substances for commercial purposes; synthesising compounds; performing qualitative and quantitative analyses and experiments in organic (including pharmaceutical), inorganic (including nuclear) and physical chemistry; developing analytical methodology and techniques; analysing raw materials and finished products to determine quality; monitoring and controlling processes in chemical industry; maintaining contact with customers before or after production to provide technical service; and preparing laboratory reports and compiling data for technical reports.

#### *Related Occupations*

Unit Group 2421 : Pharmacists

#### 2000-A CHEMIST (GENERAL) Professional Officer, Chemistry

Performs technological functions in chemistry, primarily in support of research, design and developmental activities.

Applies knowledge of the principles of chemistry to recognise, study and suggest solutions to problems encountered. Conducts experiments, under supervision of senior or research chemists, concerned with conditions for reactions and with chemical changes to improve quality, quantity and other characteristics of chemically produced products. Determines procedures and equipment to be used, and undertakes appropriate tests or other operations to ensure that type, quality, quantity and weight of compounds used by laboratories, or in processes or research are in accordance with predetermined instructions or formulae. Investigates processes to convert raw materials into consumer products, using chemical techniques.

May supervise and co-ordinate the work of technicians and tradespersons.

#### *Job Content Factors*

##### *Workers*

<b>FP:</b> GE12y PSP3-4y(PG) / (ID)	<b>IP:</b> T2m
or <b>FP:</b> GE12y PSP3y(Dip)	<b>IP:</b> T2m
<b>HC:</b> IRC	<b>RQ:</b> U2 D1 V1

##### *Materials*

<b>SM:</b> D1 I2 P2 T2	<b>EQ:</b> P2 K2
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##### *Functions*

<b>MA:</b> A1 P2 D2 R1 M1 L1	
<b>PA:</b> P2 S2 W2 E2	<b>SA:</b> S2 L2 I2 B2 R4

##### *Context*

<b>EC:</b> L1	<b>TC:</b> A1 I2
<b>SS:</b> 3	<b>SC:</b> 10 (10y)

**LMS:** 1350 (1 %SE)

**ASIC:** Many

**2000-B RESEARCH CHEMIST**

Engages in fundamental research and/or the application of research findings to commercial and other purposes; work may include investigating chemical phenomena, developing new processes and products, and improving those existing.

Conducts research into specific aspects of chemistry and develops basic theory in the discipline. Pursues research within the normal chemical disciplines, e.g. organic, inorganic, physical or analytical chemistry, or through interdisciplinary co-operation, e.g. with medical and pharmacological researchers in the development of new drugs, or with chemical engineers in the development of a new process. Writes reports and papers describing findings which may be published in learned journals or elsewhere. Pursues research within the normal chemical disciplines, e.g. organic, inorganic or physical chemistry, through interdisciplinary co-operation, e.g. with medical and pharmacological researchers in the development of new drugs, or with chemical engineers in the development of a new process.

May work with technical sales and service chemists in evaluating customer complaints or in developing new products for customer needs. May collaborate with patent attorneys to protect commercial application of new discoveries. May prepare reports for technical and financial evaluation by senior management. May supervise the activities of junior chemists and technicians. May specialise in a particular field of chemistry and be designated accordingly, e.g.

Marine Chemist                      Nuclear Chemist  
Polymer Chemist

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(HD) / (PG) or FP: GE12y PSP3y(D) HC: IRC	IP: T2m IP: T2m RQ: U1 D2 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R1 M1 L1 PA: P2 S2 W2 E2	SA: A2 S1 B2 R3-4
<b>Context</b>	
EC: T2 L1 SS: 7	TC: A1 SC: 10 (9 y)
LMS: 450 (1 %SE)	ASIC: Many

**2000-C AGRICULTURAL CHEMIST**

Conducts fundamental and applied research into the development and use of chemicals in agriculture, e.g. as fertilisers, weedicides or pesticides, and investigates the use, processing and storage of agricultural products with the objective of effecting improvements.

Supervises the practical applications of research findings. Utilises various types of micro-organisms to convert cereal grain carbohydrates to new compounds. Investigates and controls enzyme systems to transform natural substances, such as proteins, starches, vegetable oils and plant gum, into useful commercial products. Conducts chemical analyses of fruits, vegetables and other plants to develop species or strains resistant to fungi, insects and similar destructive agents. Analyses soils to determine presence or absence of significant chemical ingredients. Devises methods of removing soil poisons. Develops chemical compounds and synthetic hormones for use in weed control or as insecticides, fungicides and rodent poisons. Performs experiments concerning development and utilisation of fertilisers. Conducts experiments to develop new foods, food preservatives, anti-adulteration agents and similar products. Tests starch and sugar products, cereals, canned or dehydrated foods, dairy products, vegetables, meats, flavouring and other food products to ensure compliance with government food laws and standards of quality and purity. Prepares, or supervises preparation of, laboratory reports, specifications and standards. Supervises and co-ordinates the work of technicians.

May be concerned with one particular product or process of agricultural chemistry and be designated accordingly, e.g.

Cereal Chemist (Feed and Flour Mill)

Dairy Chemist

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(HD) / (PG) or FP: GE12y PSP3y(D) HC: IRC	IP: T2m IP: T2m RQ: U1 D2 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I2 A1 P2 D2 R2 M1 L1 PA: P2 S2 W2 E2	SA: S2 L2 I2 B2 R3-4
<b>Context</b>	
EC: L1 SS: 7	TC: A1 SC: 10 (10y)
LMS: 900 (1 %SE)	ASIC: Many

**2000-D ANALYTICAL CHEMIST**

Carries out chemical tests and analyses to determine the composition of substances and materials, and develops and improves analytical methodology and techniques.

Uses the techniques of qualitative and quantitative analysis to determine the relationship between molecular structure and the chemical and physical properties of organic and inorganic compounds. Conducts experiments and formulates analytical techniques, methodology and procedures based on experimentation. Develops techniques for use of different types of instruments, such as spectrometers, electron microscopes and fluoroscopes. Analyses and controls quality of raw materials and intermediate products in a laboratory of an industrial plant or other organisation. Ensures that proper sampling techniques are used. Monitors effluents and emissions. Prepares, or supervises the preparation of, special solutions used in testing. Interprets and prepares reports on test results to appropriate authorities and other interested personnel. Supervises and co-ordinates the work of technicians engaged in analytical chemistry.

May design and construct apparatus for analysis. May specialise in a particular area of analytical chemistry and be designated accordingly, e.g.

Assayer                                      Environmental Chemist  
Forensic Chemist

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(HD) / (PG) or FP: GE12y PSP3y(D) HC: IRC	IP: T2m IP: T2m RQ: U1 D2 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: A1 P2 D2 R1 M1 L1 PA: P1 S2 W2 E2	SA: S2 L2 B2 R3-4
<b>Context</b>	
EC: L1 SS: 7	TC: A1 SC: 10 (10y)
LMS: 450 (1 %SE)	ASIC: Many

**2000-E FOOD CHEMIST  
Food Scientist/Technologist**

Works in all fields associated with food, i.e. processing, preservation, storage and transport of food.

Is concerned with development of new food products and research into problems associated with the processing, preservation, storage and transport of food. Analyses food for its chemical and nutritional constituents and studies the effects of processing on food products. Investigates and defines problems associated with micro-organisms in foods. Supervises pilot plants and advises on modifications to existing equipment. Develops in plant quality control procedures and studies packaging and shelf life of food products. Prepares

and verifies specifications for raw materials and finished products. Supervises and co-ordinates the work of technicians. Prepares and presents scientific papers.

Food chemists mainly engaged in the growing of food are excluded and are classified as 2010-B AGRICULTURAL SCIENTIST.

#### Job Content Factors

##### Workers

FP: GE12y PSP4-7y(HD) / (PG)	IP: T2m
or FP: GE12y PSP3y(D)	IP: T2m
HC: IRC	RQ: U1 D2 V1

##### Materials

SM: D1 I2 P2 T2	EQ: P2 K2
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#### Functions

MA: I2 A1 P2 D2 R2 M1 L1

PA: P2 S2 W2 E2

SA: S2 L2 B2 R3-4

#### Context

EC: L1

TC: A1

SS: 7

SC: I0 (10y)

LMS: 1350 (5 %SE)

ASIC: Many

#### 2000-Z

#### CHEMISTS nec

This residual group covers chemists not elsewhere classified in Unit Group 2000, e.g.

Industrial Chemist

Technical Sales and Service Chemist

Quality Control Chemist

## 2001 EARTH SCIENTISTS

This unit group covers occupations concerned with investigating the nature and history of the earth's crust, atmosphere and hydrosphere, and the composition, structure and physical properties of the mantle and core, and with practical applications of this knowledge in such fields as mineral exploration and exploitation, weather forecasting and water conservation.

**Entry Requirements** a degree/diploma in science with major studies in earth science and related subjects or in physics and mathematics in the case of meteorologists; occupations involving research normally require a higher degree.

**Activities include** studying the stratigraphic arrangement of the earth, the physical nature of the atmosphere and hydrosphere, and the distribution and circulation of water; identifying and classifying rocks, minerals and fossils; locating natural resources such as coal, oil, natural gas, metals, industrial materials and water on land and beneath the sea; analysing and predicting the state of the atmosphere; compiling data and preparing technical reports.

### 2001-A GEOLOGIST

Investigates the composition, structure and history of the earth to increase scientific knowledge, to locate exploitable minerals, to establish engineering characteristics and to advise on the orderly development of mineral resources in balance with community requirements for conservation.

Explores specific areas to determine the underground structure and the types of minerals or rocks that may exist. Studies rock cores and cuttings resulting from drilling or samples obtained from outcrop, stream sediments and soils. Classifies fossilised life forms found in geological formations on land and from beneath the sea according to their chronology and genus in order to correlate and map rock. Studies the nature and effect of forces such as erosion, sedimentation and glaciation on the form of the earth's surface and sea beds. Examines geological specimens in a laboratory, using scientific instruments and apparatus and chemical techniques. Examines and interprets remote sensing imagery to identify rock types, structural trends, lineaments and faults, indicating features of possible value for mineral exploitation. In co-operation with mining engineers, metallurgists, and financial and marketing personnel, determines the economics of extraction of resources, both in the initial exploration stage and also during operations, e.g. of mines, tunnelling operations etc. Interprets research data derived from laboratory studies or field explorations and prepares geological reports and maps.

May study the chemical composition of, and the past and present changes in, the earth's crust. May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May be concerned with a particular aspect of geology and be designated accordingly, e.g.

Coal Geologist	Economic Geologist
Engineering Geologist	Exploration Geologist
Geochemist	Geochronologist
Geomorphologist	Hydrogeologist
Marine Geologist	Mining Geologist
Mud Logger	Palaeontologist
Palynologist	Petroleum Geologist
Petrologist	Photogeologist
Research Geologist	Sedimentologist
Stratigrapher	Structural Geologist
Volcanologist; Vulcanologist	

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(D) / (Dip)	IP: T2m
or FP: GE12y PSP4-7y(HD) / (PG)	IP: T2m
HC: IRC	RQ: U2 V1

##### Materials

SM: D1 I2 P2 T2	EQ: P2 S1 N2 K2
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#### Functions

MA: I1 A1 P2 D2 R2 M2 L1

PA: P2 H2 S2 W2 B2 E3

SA: S1 B2 R4

#### Context

EC: T2 M1 L2 C01

TC: A1 I1

SS: 5

SC: I0 (10y)

LMS: 2500 (5 %SE)

ASIC: Many

**2001-B GEOPHYSICIST**

Studies physical aspects of the earth, including its atmosphere and hydrosphere, to estimate the structure and composition of its interior, to locate mineral deposits, to determine the flow pattern of ocean tides and currents, and to detect and forecast seismic, magnetic, electrical and thermal activity within the earth.

Conducts surveys to obtain precise measurements of the earth's gravitational and magnetic fields in order to determine the size, mass, structure and composition of the earth, and to provide information concerning the nature of, and phenomena in, the ionosphere. Conducts, and analyses data from airborne, ground and drillhole surveys including seismic, electrical and electromagnetic, radiometric and palaeomagnetic surveys, and laboratory studies, to assist in locating water-, oil- and gas-, or mineral-bearing structures and in determining the structure, composition and evolution of subsurface rocks. Prepares charts, profiles and/or subsurface contour maps. Prepares reports on exploration ground and airborne surveys and laboratory work. Supervises and co-ordinates the work of technicians and other workers.

May study the physical aspects of oceans, such as density, temperature, salinity, light and sound transmission and water circulation. May be concerned with the development and distribution of land waters. May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May specialise in a particular field of geophysics and be designated accordingly, e.g.

Engineering Geophysicist	Exploration Geophysicist
Hydrologist	Marine Geophysicist
Palaeomagnetist	Physical Oceanographer
Seismologist	
Potential Field Geophysicist	

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3-4y(PG) / (D) or FP: GE12y PSP5-7y(HD) HC: IRC	IP: T2m IP: T2m RQ: U1 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P2 D2 R2 M1 L1 PA: P2 S2 W2 E2	SA: S1 L2 B2 R4
<b>Context</b>	
EC: T2 M1 L4 C01 SS: 5	TC: A1 I1 T2 SC: 10 (10y)
LMS: 400-500 (5 %SE)	ASIC: Many

**2001-C METEOROLOGIST  
Atmospheric Physicist**

Studies the physics and dynamics of the atmosphere to increase scientific knowledge, and applies this knowledge to the analysis and prognosis of the state of the atmosphere and to various other purposes.

Measures properties of the atmosphere at all levels, and designs, modifies and operates equipment to make such measurements. Investigates methods of analysis and prognosis of atmospheric conditions and atmospheric circulation, including the use of numerical methods. Analyses and interprets synoptic, surface, upper level and ancillary charts, satellite cloud photographs and other observational data concerning atmospheric phenomena. Prepares weather

forecasts. Prepares warnings relating to atmospheric phenomena which threaten the safety of life and property. Establishes and reviews meteorological networks for the collection and dissemination of observational data. Supervises and co-ordinates the work of technical officers, technicians and other workers.

May be concerned with a particular aspect of meteorology and be designated accordingly, e.g.

Agrometeorologist	Hydrometeorologist
Synoptic Meteorologist	

May develop and test hypotheses, new theories, concepts and laws governing the behaviour of the atmosphere and be designated accordingly,

Research Meteorologist

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3-4y(PG) / (D) or FP: GE12y PSP5-7y(HD) HC: IRC	IP: T9m IP: T9m RQ: U2 V1 A2
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I2 A1 P2 D2 R2 M1 L1 PA: P2 S2 W2 E2	SA: S1 I2 B2 R4
<b>Context</b>	
EC: M2 L4 SS: 5	TC: A1 I2 SC: 10 (10y)
LMS: 260 (0 %SE)	ASIC: Many

**2001-D PHYSICAL GEOGRAPHER**

Studies and analyses the spatial distribution and interrelationship of physical patterns on the earth.

Observes, collects and measures data related to area of geographical specialisation, such as climate, soil and biological distribution. Analyses and interprets statistical data and experimental information. Advises or acts as consultant to governments and commercial organisations on resource planning, transportation, boundary demarcations and other matters. Assists in the compilation of maps, atlases and other compendiums of geographic information.

May specialise in a particular branch of physical geography and be designated accordingly, e.g.

Biogeographer	Climatologist
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**Related Occupation**

Occupation 2109-B : Geographer

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3-4y(PG) / (D) or FP: GE12y PSP5-7y(HD) HC: IRC	IP: T2m IP: T2m RQ: U1 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I2 A1 P2 D2 R1 M2 L1 PA: P1 S2 W2	SA: S1 I2 P2 B2 R4
<b>Context</b>	
EC: M2 L4 SS: 5	TC: A1 SC: 10 (10y)
LMS: 300-400 (0 %SE)	ASIC: Many

**2002 PHYSICISTS**

This unit group covers occupations concerned with conducting pure research to extend knowledge in

physics and applied research related to the scientific and commercial utilisation of physical phenomena.

**Entry Requirements** a degree/diploma in science with major studies in physics and related subjects; occupations involving research normally require a higher degree.

**Activities include** analysing, in mathematical terms, and developing hypotheses from, the results of experiments involving heat, light, sound, electricity and magnetism, molecules, atoms, nuclei and other physical phenomena; predicting results of experiments designed to detect and measure previously unobserved physical phenomena; using research data to formulate or substantiate new theories, concepts or laws; studying bodies at rest and in motion; conducting experiments to discover the fundamental particles of matter, and observing the forms of energy and their interaction and effect on matter.

#### *Related Occupations*

Occupation 2012-D : Biophysicist  
Occupation 2420-A : Medical Physicist

### 2002-A PHYSICIST (GENERAL)

Studies physical phenomena to increase scientific knowledge and to develop and improve materials, products, and industrial and other processes.

Performs experiments, tests and analyses to investigate structure and properties of matter, transformation and propagation of energy, relationships between matter and energy and other physical phenomena in fields such as mechanics, heat, light, sound, electricity and magnetism, electronics, and nuclear and solid-state physics. Conducts experiments to discover and develop industrial, medical, military and other practical applications of laws and theories of physics. Applies mathematical techniques to express and analyse observations and to formulate conclusions; relates conclusions to known laws of physics or proposes new hypotheses to explain them.

#### *Job Content Factors*

<b>Workers</b>	
FP: GE12y PSP3y(D) / (Dip)	IP: T2m
or FP: GE12y PSP4-7y(HD) / (PG)	IP: T2m
HC: IRC	RQ: U1 V1 A2
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I1 A1 P2 D2 R1 M1 L1	
PA: P1 S2 W2 E2	SA: A2 S2 B2 R4
<b>Context</b>	
EC: T2 L1 C10,11	TC: A1
SS: 6	SC: 10 (10y)
LMS: 2000-2500(0 %SE)	ASIC: Many

### 2002-B ASTRONOMER

Observes, analyses and interprets data on positions, motions, composition, structure and characteristics of celestial bodies to extend the knowledge of the origin, evolution and eventual destiny of the universe.

Observes celestial bodies from ground observation stations or instrument packages carried by balloon, rocket or orbiting satellite, using X-ray detectors, and radio or optical telescopes equipped with cameras, spectrographs, photometers, radiometers and other devices. Determines mass, position, distance, motion, composition and structure of members of the solar system, stars, stellar systems, interstellar matter, pulsars, galaxies and quasars, and interprets information obtained in terms of basic physical laws. Calculates orbits of various celestial bodies observed. Conducts research on statistical theory of motions of celestial bodies and analyses spectra of celestial bodies. Studies structure and evolution of stars, stellar systems and universe, using digital computers for reduction

and analysis of data and testing of physical theories (mathematical models) relating to the universe. Prepares, or supervises preparation of, scientific papers and reports. Supervises the work of technical officers and technicians.

May prepare tables showing positions relative to earth of sun, moon, planets and stars at given times, for use by air and sea navigators. May design and improve mechanical, optical and electronic instruments for astronomical research. May specialise in a particular area of astronomy, and be designated accordingly, e.g.

Astronomer, Celestial Mechanics  
Astrophysicist  
Cosmologist  
Radio Astronomer

#### *Job Content Factors*

<b>Workers</b>	
FP: GE12y PSP4-7y(HD) / (PG)	IP: T2m
HC: IRC	RQ: U1 V1 A2
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I1 A1 P2 D2 R1 M1 L1	
PA: P1 S2 W2 E2	SA: S2 B2 R4
<b>Context</b>	
EC: M2 L1	TC: A1 I2
SS: 7	SC: 10 (10y)
LMS: 75 (0 %SE)	ASIC: Many

### 2002-C ATOMIC PHYSICIST

Studies the structure of atoms and molecules, and some aspects of nuclei, and devises methods of applying this knowledge.

Observes the normal, excited and ionised states of atoms and molecules, using atomic and molecular beam resonance techniques. Studies the force of impact and scattering of particles in atomic collisions, utilising on-line computers. Determines the chemical bonds in molecules by studying the structure of atoms and molecules and their unstable states. Formulates theories and laws, in conjunction with research, to describe physical properties that govern the behaviour of atoms and molecules. Prepares, or supervises preparation of, scientific papers and reports. Supervises and co-ordinates the work of technologists and technicians.

May be concerned with a particular aspect of atomic or molecular physics and be designated accordingly, e.g.

Chemical Physicist      Chemical Spectroscopist  
Optical Spectroscopist

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3y(D)	IP: T2m
or FP: GE12y PSP4-7y(HD) / (PG)	IP: T2m
HC: IRC	RQ: U1 V1 A2
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I1 A1 P2 D2 R1 M1 L1	
PA: P1 S2 W2 E2	SA: A2 S1 B2 R4
<b>Context</b>	
EC: T2 M2 L1	TC: A1
SS: 7	SC: I0 (10y)
LMS: 480 (0 %SE)	ASIC: Many

**2002-D NUCLEAR PHYSICIST**

Studies the structure, reaction processes and radioactive decay of atomic nuclei, and the nature of nuclear forces.

Measures the physical characteristics of nuclear particles and radiation to determine the properties of nuclear states. Studies the scattering and reaction processes involved in collisions between nuclei and between nuclei and elementary particles, electromagnetic radiation and materials. Designs, modifies and operates nuclear accelerators, reactors and other equipment to make such measurements and studies, and to produce isotopes not otherwise present in the environment of the earth. Prepares, or supervises preparation of, relevant scientific papers and reports. Supervises and co-ordinates work of technical officers and technicians.

May be concerned with a particular aspect of nuclear physics and be designated accordingly, e.g.

Accelerator Physicist  
Cosmic Ray Physicist  
Experimental Nuclear Physicist  
Nuclear Reactor Physicist  
Theoretical Nuclear Physicist

May study and implement radiation protection methods, and plan and execute control measures to minimise health hazards to people accidentally or otherwise exposed to radiation, and be designated accordingly,

Health Physicist

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3y(D)	IP: T2m
or FP: GE12y PSP4-7y(HD) / (PG)	IP: T2m
HC: IRC	RQ: U1 V1 A2
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I1 A1 P2 D2 R1 M1 L1	
PA: P1 S2 W2 E2	SA: A2 S1 B2 R4

**Context**

EC: T2 M2 L1 C11	TC: A1
SS: 7	SC: I0 (10y)
LMS: 480 (0 %SE)	ASIC: Many

**2002-E SOLID-STATE PHYSICIST**

Studies the structure, character and physical properties of solids and the relationship between structure and properties, applying this knowledge to the design and development of scientific and commercial equipment and processes.

Conducts experiments to observe and identify crystal structures. Investigates thermal, optical, magnetic, electronic and surface properties of all types of solids. Determines structure of polymers, glasses and disordered systems. Studies transport properties of electrons in solids. Constructs theories to explain physical behaviour of solids. Prepares, or supervises preparation of, scientific papers and reports. Supervises and co-ordinates work of technical officers and technicians.

May design and develop equipment for experimental or commercial use. May construct models and computer programs for theoretical studies. May specialise in a particular aspect of solid-state physics and be designated accordingly, e.g.

Crystallographer  
Semi-conductor Physicist  
Metal Physicist  
Surface Physicist

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3y(D)	IP: T2m
or FP: GE12y PSP4-7y(HD) / (PG)	IP: T2m
HC: IRC	RQ: U1 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I1 A1 P2 D2 R1 M1 L1	
PA: P1 S2 W2 E2	SA: A2 S2 B2 R4
<b>Context</b>	
EC: T2 L1	TC: A1
SS: 7	SC: I0 (10y)
LMS: 480 (0 %SE)	ASIC: Many

**2002-Z PHYSICISTS nec**

This residual group covers physicists not elsewhere classified in Unit Group 2002, e.g.

Acoustics Physicist  
Electromagnetic Physicist  
Materials Physicist  
Mechanics Physicist  
Plasma Physicist  
Research Physicist  
Elementary Particle Physicist  
Applied Physicist  
Fluid-State Physicist  
Measurement Physicist  
Optics Physicist  
Relativity Physicist  
Thermal Physicist

**2003 MATERIALS SCIENTISTS AND METALLURGISTS**

This unit group covers occupations concerned with studying the properties of metals, polymers, ceramics and other materials, developing materials for specific applications, and advising on uses and methods of production.

**Entry Requirements** a degree/diploma in science or engineering with major studies in metallurgy, materials science and/or related subjects; occupations involving research normally require a higher degree.

**Activities include** investigating the properties of metals, alloys, polymers, rubbers, ceramics and other materials; planning and carrying out experimental laboratory production of materials having specified characteristics or potential uses; supervising technical aspects of processes for the production and modification of metals and other materials; testing samples of raw materials, semi-finished and

finished products for impurities and defects; advising on the properties, engineering characteristics and applications of various materials, and supervising processes for making finished products.

*Related Occupations*

Unit Group 2044

: Materials and Metallurgical Engineers

**2003-A MATERIALS SCIENTIST (NON-METALS)**

Studies and develops uses or potential uses of non-metallic materials in science and technology and advises on technical aspects of their manufacture and processing.

Conducts studies of structures and properties of various materials such as ceramics, polymers, rubbers and semi-conductors to obtain research and design data. Plans and implements experimental laboratory production of materials having special characteristics to confirm process feasibility. Evaluates properties of materials during processes such as extruding, moulding, casting, rolling and forming to obtain optimum results. Studies joining of diverse materials to form complex structures. Consults with engineers and others to develop economic manufacturing methods, to minimise air and water pollution and to set up inspection and testing procedures. Supervises and co-ordinates work of technical officers, technicians and other workers.

May specialise in a particular material or class of materials and be designated accordingly, e.g.

Ceramics Scientist      Polymer Scientist  
Rubber Technologist

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP3y(D) / (Dip)	IP: T2m
or FP: GE12y PSP4-7y(HD) / (PG)	IP: T2m
HC: IRC	RQ: U1 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: I2 A1 P2 D2 R1 M2 L1	
PA: P1 S2 W2 E2	SA: A2 S2 L2 I1 B2 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 7	SC: I0 (10y)
LMS: 1000 (0 %SE)	ASIC: Many

**2003-B METALLURGIST  
Materials Scientist**

Investigates the properties of metals and alloys, develops new

alloys, and advises on and supervises technical aspects of metal and alloy manufacture and processing.

Conducts studies of metals and alloys to determine physical characteristics such as crystalline structure, dispersion of alloy particles through basic metal, and presence of impurities, fractures and other defects. Develops melting, hot-working, cold-working and heat-treating processes to obtain desired characteristics such as ductility, malleability, hardness and durability. Tests alloys in tension, compression, impact, bending and fatigue testing devices to study their engineering properties and to check compliance with prescribed standards. Measures and records data from experiments on metals and alloys relating to effects of corrosion, friction and extremes of temperature. Evaluates properties of metals during processes such as rolling, extruding, casting, forming, welding, corrosion protection, alloying, heat and mechanical treatment to obtain optimum results. Consults with engineers and others to develop economical manufacturing methods for alloys, to minimise air and water pollution, and to set up inspection and testing procedures. Supervises and co-ordinates work of technical officers, technicians and other workers.

May specialise in a particular area of physical metallurgy or in ferrous or non-ferrous metals and be designated accordingly, e.g.

Foundry Metallurgist      Metallographer  
Non-Ferrous Metallurgist

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP3y(D) / (Dip)	IP: T2m
or FP: GE12y PSP4-7y(HD) / (PG)	IP: T2m
HC: IRA	RQ: U2 D1 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P2 K2
<i>Functions</i>	
MA: I1 A1 P2 D2 R1 M1 L1	
PA: P2 S2 W2 E1	SA: S1 I2 P1 B2 R4
<i>Context</i>	
EC: T2 M1 L2	TC: A1 I1
SS: 7	SC: I0 (10y)
LMS: 500-700 (0 %SE)	ASIC: Many

**2004 PHYSICAL SCIENCE TECHNICAL OFFICERS**

This unit group covers occupations concerned with the performance of duties as described under Master Title TECHNICAL OFFICER, in various fields of physical science.

**Entry Requirements** a para-professional certificate, associate diploma or diploma in one or more of the physical and manufacturing sciences plus up to 2 years' experience.

**Activities include** carrying out technical functions in a physical science specialisation such as chemistry, physics and textile technology, using a knowledge of scientific and mathematical principles and laboratory practice.

**2004-A TECHNICAL OFFICER, CHEMISTRY**

Carries out technical functions in chemistry, primarily in support of research, design and developmental activities.

Performs duties as described under Master Title **TECHNICAL OFFICER**. Applies knowledge of the principles of chemistry to recognise, study and suggest solutions to problems encountered. Conducts experiments, under supervision of chemists, concerned with reactions and other chemical changes to improve quality, quantity and characteristics of chemically produced products. Determines procedures to be used; performs tests and other operations to ensure that the type, quality and quantity of compounds used in laboratories, processes or research activities are in accordance with established instructions or formulae. Supervises and co-ordinates the work of technicians and tradespersons.

May specialise in an aspect of the work and be designated accordingly, e.g.

Chemical Instrumentation Technologist  
Chemical Process Analyst  
Laboratory Analyst (Chemistry)

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
or FP: GE12y PSP3y(Dip)	IP: E0-2y
HC: IRC	RQ: U2 D2 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: A1 P2 D2 R3 M3 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1	TC: A1
SS: 7	SC: 9 (10y)
LMS: 4500 (0 %SE)	ASIC: Many

**2004-B TECHNICAL OFFICER, METEOROLOGICAL**

Performs technical functions in meteorology, within a framework of established scientific and meteorological practices, primarily in support of meteorologists.

Performs duties as described under Master Title **TECHNICAL OFFICER**. Within a standard framework, prepares synoptic analyses and chart prognoses of relatively short period meteorological forecasts for particular geographic localities or aircraft routes. Interprets public weather forecasts and warnings for various users; briefs aircrews. Sets standards of meteorological observing and develops observing and reporting networks. Evaluates and collates meteorological data and derives data for research and other studies.

May prepare air safety incident reports and similar information. May prepare special forecasts as, for example, ocean area forecasts and storm warning advices. May supervise a field forecasting office or an interpreter office.

**Job Content Factors**

<b>Workers</b>	
FP: GE11y PSP4y(PPC)	IP:
HC: IRC	RQ: U2 V1 A2
<b>Materials</b>	
SM: D1 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: A2 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E1	SA: S1 B1 R4
<b>Context</b>	
EC: M1 L2	TC: A1 I2
SS: 7	SC: 9 (10y)
LMS: 130 (0 %SE)	ASIC: Many

**2004-C TECHNICAL OFFICER, PHYSICS**

Performs technical functions in physics, primarily in support of research, design and development activities.

Performs duties as described under Master Title **TECHNICAL OFFICER**. Carries out experiments, tests and analyses in mechanics, heat, optics, sound, electricity and magnetism, electronics, nuclear physics and other branches of physics to investigate the properties of matter and the propagation of energy, using instruments including computers. Is responsible for measuring physical parameters and processing data. Is responsible for the correct use of facilities for physics research and measurement. Applies knowledge of principles of physics to recognise, study and suggest solutions for problems encountered, and develops instrumentation for this purpose. Supervises and co-ordinates the work of technicians and tradespersons.

May be concerned with a particular aspect of physical science and be designated accordingly, e.g.

Technical Officer, Optics  
Technical Officer, Spectroscopic

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
or FP: GE12y PSP3y(Dip)	IP: E0-2y
HC: IRC	RQ: U2 D2 V1 A2
<b>Materials</b>	
SM: D1 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: A1 P2 D2 R3 M3 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1 C10,11	TC: A1
SS: 7	SC: 9 (10y)
LMS: 4500 (0 %SE)	ASIC: Many

**2004-D TECHNICAL OFFICER, TEXTILES  
Textile Technologist**

Performs technological functions in various aspects of design, production and quality control of textile products.

Performs duties as described under Master Title **TECHNICAL OFFICER**. Analyses fibres, designs fabrics and prepares specifications for their production. Selects and develops dyestuffs and dyeing formulae for the production of given shades of fabric. Obtains and analyses test data and sets and maintains standards of quality. Supervises production in textile plants in departments such as spinning, weaving, knitting, dyeing, finishing and garment manufacturing. Establishes production allocation schedules, maintains and supervises preparation of records and analytical reports. Supervises and co-ordinates the work of subordinate technicians and tradespersons.

May assist and advise customers with problems. May be concerned with a particular aspect of textile technology and be designated accordingly, e.g.

Dyeing and Finishing Technologist  
Fabric Design Technologist  
Production and Quality Control Technologist  
Textile Colour Technologist

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
or FP: GE12y PSP3y(Dip)	IP: E0-2y
HC: IRA	RQ: U2 D2 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: P1 M2 K2
<b>Functions</b>	
MA: A2 P2 D2 R3 M3 L2	
PA: P1 H2 S2 W2 E2	SA: L1 B2 R4
<b>Context</b>	
EC: L1	TC: A1
SS: 7	SC: 9 (10y)
LMS: 160 (0 %SE)	ASIC: Many

**2004-Z PHYSICAL SCIENCE TECHNICAL OFFICERS nec**

not elsewhere classified in Unit Group 2004, e.g.

This residual group covers physical science technical officers

Technical Officer, Geology

**2005 PHYSICAL SCIENCE TECHNICIANS**

This unit group covers occupations concerned with the performance of duties described under Master Title **TECHNICIAN**, in various fields of physical science.

**Entry Requirements** a para-professional certificate in one or more of the physical and manufacturing sciences.

**Activities include** carrying out technical functions, usually in support of chemists, earth scientists, physicists or physical science technical officers, in a physical science specialisation such as chemistry, geology, geophysics, meteorology, hydrology or physics, using a knowledge of scientific principles and laboratory practices.

**2005-A CHEMISTRY TECHNICIAN**

Carries out a limited range of technical functions in chemistry, primarily in relation to laboratory operation and maintenance, and quality and process control activities.

Performs duties as described under Master Title **TECHNICIAN**. Conducts standard chemical and physical laboratory tests and makes routine qualitative and quantitative analyses of materials including liquids and gases. Sets up laboratory equipment and instrumentation required for tests, research or process control. Prepares chemical solutions for use in tests, following standardised formulae and procedures.

May set up and operate small-scale chemical pilot-plant equipment, under laboratory conditions, for testing chemical methods and processes. May work with radioactive materials, carrying out radiochemical procedures under supervision.

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y PSP2y(PPC)	IP: T2m
HC: IRC	RQ: U2 D2 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: A2 P2 D2 R3 M2 L3	
PA: P1 S2 W2 E2	SA: S2 L2 B1 R4
<b>Context</b>	
EC: L1	TC: A1
SS: 7	SC: 9 (12y)
LMS: 4500 (0 %SE)	ASIC: Many

**2005-B GEOLOGY TECHNICIAN**

Carries out a limited range of technical functions in geology, primarily in relation to collection, analysis, maintenance and repair activities.

Performs duties as described under Master Title **TECHNICIAN**. Collects geological samples during field expeditions and prepares for analysis. Performs preliminary classification of rocks, minerals and fossilised life forms found in geological formations. Assists in analysing rocks and minerals to provide data for geologists engaged in geological, mineralogical and geochemical studies. Prepares samples of soil and rock in thin and polished sections for microscopic examination and for testing to determine such physical properties as strength, hardness and elasticity. Maintains and repairs equipment, referring to schematic diagrams.

May be concerned with a particular aspect of geology and be designated accordingly, e.g.

Geochemical Technician	Isotope Technician
Lapidary Technician	Mineral Separation Technician
Palaeontology Technician	X-Ray Technician

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y PSP2y(PPC)	IP: T2m
HC: IRC	RQ: U2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S1 N2
<b>Functions</b>	
MA: A2 P2 D3 R3 M3 L3	
PA: P2 U1 H2 S2 W2 B2 E3	SA: S1
<b>Context</b>	
EC: M1 L4 C01	TC: A1 I2
SS: 7	SC: 9 (12y)
LMS: 350 (0 %SE)	ASIC: Many

**2005-C GEOPHYSICS TECHNICIAN**

Carries out a limited range of technical functions in geophysics and petroleum geology, primarily in relation to installation, operation, maintenance and repair of geophysical equipment.

Performs duties as described under Master Title **TECHNICIAN**. Directs positioning of instrument truck containing portable seismographic equipment such as seismometers, amplifiers and recording oscillographs at predetermined location. Verifies distribution of seismometers over area adjacent to previously drilled blasting holes. Directs laying-out and connecting of electrical cables between seismometers and recording truck. Sets up telephone or short wave radio communication systems between recording truck and shooting units. Operates audio- and video-reproduction equipment to process seismic wave field recordings for analysis by other personnel. Reproduces corrected recordings on photographic film for subsequent analysis. Develops negatives of photographically recorded sound waves, and prints photographic charts in portable darkroom. Repairs defective equipment.

May be concerned with a particular aspect of geophysics or petroleum geology and be designated accordingly, e.g.

Aerial Survey Operator	Observer, Gravity
	Prospecting
Observer, Seismic Prospecting	

## Well-Lagging Technician

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y PSP2y(PPC)	IP: T2m
HC: IRC	RQ: U2 D1 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: P1
<b>Functions</b>	
MA: A2 P2 D3 R3 M2 L2	
PA: P1 H2 S2 W2 B2 E3	SA: S1
<b>Context</b>	
EC: M1 L4 C01	TC: A1
SS: 7	SC: 9 (12y)
LMS: 400 (0 %SE)	ASIC: Many

**2005-D HYDROLOGICAL TECHNICIAN**

Carries out a limited range of technical functions in hydrology, primarily in relation to measurement, quality control and maintenance activities.

Performs duties as described under Master Title TECHNICIAN. Measures rate of flow of moving water at surface and at various depths. Verifies the accuracy of automatic water level recorders by calibrating them against portable flowmeters. Computes mean flow, using tables. Prepares graphs, charts and other hydrographic data to depict trends in water flow pattern at metering stations. Obtains water samples for laboratory analysis. Measures water levels and water quality in designated wells to ascertain water storage in ground and effect of rainfall. Repairs or replaces defective recorders. Advises land holders on quality and quantity of groundwater resources.

May be concerned with a particular aspect of hydrology and be designated accordingly, e.g.

Groundwater Hydrological Technician

Surface-Water Hydrological Technician; Hydrographer

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y PSP2y(PPC)	IP: T2m
HC: IRC	RQ: U2 V1

**Materials**

SM: D1 P2 T2	EQ: P1 S1
<b>Functions</b>	
MA: A2 P2 D3 R3 M3 L3	
PA: P1 U1 C2 W2 E3	SA: S1 I1
<b>Context</b>	
EC: M1 L2	TC: A1 I2
SS: 7	SC: 9 (11y)
LMS: 400-1000 (0 %SE)	ASIC: Many

**2005-E PHYSICS TECHNICIAN**

Carries out a limited range of technical functions in physics, primarily in relationship to operation, maintenance and quality control activities.

Performs duties as described under Master Title TECHNICIAN. Sets up and operates equipment for making physics measurements and operates physical research facilities following specifications and guidance from professional workers. Maintains and repairs test equipment.

May carry out routine data processing involving the use of computers. May be concerned with a particular technical aspect of physics and be designated accordingly, e.g.

Vacuum Technician

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y PSP2y(PPC)	IP: T2m
HC: IRC	RQ: U2 V1 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: P1 M1 K2
<b>Functions</b>	
MA: A2 P2 D3 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S1
<b>Context</b>	
EC: L1	TC: A1
SS: 7	SC: 9 (11y)
LMS: 4500 (0 %SE)	ASIC: Many

**2005-Z PHYSICAL SCIENCE TECHNICIANS nec**

This residual group covers physical science technicians not elsewhere classified in Unit Group 2005.

**2009 OTHER PHYSICAL SCIENCE OCCUPATIONS**

This residual unit group covers occupations, not elsewhere classified, concerned with observation and related technical activities in the physical sciences area.

**Activities include** developing methods of abating or controlling sources of environmental pollutants; and making meteorological observations and associated computations.

**2009-A ENVIRONMENTAL SCIENTIST**

Develops methods of abating or controlling sources of environmental pollutants, utilising knowledge of principles and concepts of various scientific and engineering disciplines.

Plans and develops research models, using knowledge of mathematical, statistical and physical science concepts and approaches. Identifies and analyses sources of pollution to determine their effects. Collects and synthesises data derived from pollution emission measurements, atmospheric monitoring, meteorological and mineralogical information, and soil or water samples. Prepares graphs, charts, and statistical models from synthesised data, using knowledge of

mathematical, statistical and engineering analysis techniques. Analyses data to assess pollution problems, establish standards and develop approaches for control of pollution.

May specialise in particular aspect of environment and be designated accordingly, e.g.

Air Pollution Analyst

Water Quality Analyst

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3y(D) / (Dip)	IP: T2m
or FP: GE12y PSP4-7y(PG) / (HD)	IP: T2m
HC: IRC	RQ: U1 D2 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K1

*Functions*

MA: A1 P2 D2 R2 M2 L1

PA: P2 S2 W2 E1

SA: S1 I2 P1 B2 R4

*Context*

EC: M1 L4

TC: A1

SS: 7

SC: 10 (10y)

LMS: 1250 (0 %SE)

ASIC: Many

**2009-B METEOROLOGICAL OBSERVER**

Makes meteorological observations, both instrumental and non-instrumental, and associated computations, plotting and reporting results.

Performs duties as generally described under Master Title **TECHNICIAN**. Carries out surface observations including instrumental, cloud and visibility observations. Performs associated computations and prepares reports. Checks instrument performance and arranges necessary corrective action. Identifies, checks and rectifies as necessary anomalous reports of synoptic and upper air observations. Plots synoptic and upper-air charts where a knowledge of codes and synoptic meteorology is involved.

May use electronic equipment, including radar and radiosonde, to observe wind, rainfall intensity and location, turbulence in aerodrome approach control areas, and the

location, development and movement of tropical cyclones, and make associated computations and reports. May take pilot balloon flight observations using theodolite and make associated computations. May control a program of observation quality control and advise on observational standards and on anomalous recordings. May supervise other observers engaged in a prescribed program of observations.

*Job Content Factors**Workers*

FP: GE11y

HC: IRC

IP: T1y

RQ: V1

*Materials*

SM: D1 P2 T2

EQ: P1 K2

*Functions*

MA: A2 P2 D3 R3 M3 L3

PA: P1 S2 W2 E2

SA: S1 B2 R4

*Context*

EC: T2 M1 L4

SS: 7

TC: A1 I1

SC: 9 (11y)

LMS: 400 (0 %SE)

ASIC: Many

**2009-Z PHYSICAL SCIENCE OCCUPATIONS nec**

This residual group covers occupations in physical sciences not elsewhere classified in Minor Group 200.

## MINOR GROUP 201 LIFE SCIENCE OCCUPATIONS

Life Science Occupations are classified in the following unit groups.

2010	Agricultural Scientists
2011	Veterinarians
2012	Biological Scientists
2013	Foresters
2014	Life Science Technical Officers
2015	Life Science Technicians
2019	Other Life Science Occupations

### *Related Occupations*

Minor Group 242 : Medical Science Occupations

### 2010 AGRICULTURAL SCIENTISTS

This unit group covers occupations concerned with studying the growth, genetics and viability of crop and pasture plants and agricultural livestock, and the nature and composition of soils, and with applying this knowledge to the development, propagation and conservation of economically useful plants and animals.

**Entry Requirements** a degree/diploma in agriculture plus 5 years' experience in some cases; occupations involving research normally require a higher degree.

**Activities include** studying the location, characteristics and composition of soils; supervising controlled breeding and selection experiments on plants and animals to secure higher quality and yield; developing new methods and techniques for the processing and storage of agricultural products; and advising on the operation and economics of farms.

### *Related Occupations*

Major Group 50	: Agricultural Occupations
Unit Group 2012	: Biological Scientists
Unit Group 2013	: Foresters

### 2010-A

#### **AGRICULTURAL EXTENSION OFFICER** **Advisory Officer, Agriculture; Extension Officer**

Advises farmers on all aspects of farm decision-making, including the general care of animals, poultry and crops, soil and land management, farm machinery, production trends and market requirements.

Visits farms to inspect stock and discuss growth and production rates, diseases and feeding programs. Advises farmers on various problems connected with growing and cultivating particular field crops. Recommends methods to improve care of stock or increase production of crops, pastures etc. Gives farm management advice with the view to improving financial success of farmer, and advice about alternative agricultural enterprises.

### *Job Content Factors*

#### *Workers*

FP: GE12y PSP3y(D) / (Dip)	IP: T1y
or FP: GE12y PSP4y(PG)	IP: T1y
HC: IRC	RQ: U1 D2 V1

#### *Materials*

SM: D2 I2 P1 T2	EQ: P2 K2
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#### *Functions*

MA: A1 P1 D2 R2 M2 L1	SA: S1 P1
PA: P2 C2 S2 W2 E2	

#### *Context*

EC: M1 L2	TC: A1 I2
SS: 7	SC: I0 (10y)

LMS: 2000 (5 %SE)

ASIC: Many

# 2010-B AGRICULTURAL SCIENTIST

Provides research, advisory and/or industry resource services to the agricultural industries covering the production, processing, distribution and marketing of agricultural and horticultural crops and livestock production enterprises, performing any combination of the following duties.

Develops improved methods of production of crops and livestock to increase efficiency and conserve land resources, and extends this information to farm practice. Integrates and applies the result of various applied sciences to agriculture. Breeds and selects improved varieties of crops and breeds of livestock to improve productivity. Develops new methods of harvesting, processing and transporting agricultural and horticultural crops to minimise waste and spoilage, and provides advice to industry thereon. Advises on the feasibility of crop or livestock farming systems in a particular area taking into account agricultural production potential and the availability of markets, potential market prices and other economic variables. Identifies plant and animal pests and diseases, develops and recommends improved methods of control. Assesses and develops methods to improve the quality of agricultural products. Supervises and co-ordinates the work of technical officers and technicians associated with agricultural research, extension or regulatory work.

May provide direct consultancy services to agricultural producers and potential investors in agriculture.

## Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3y(D) / (Dip)	IP: T2m
or FP: GE12y PSP4-7y(PG) / (HD)	IP: T2m
HC: IRA	RQ: U1 D1 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I2 A1 P2 D2 R2 M2 L1	
PA: P2 S2 W2 E1	SA: S1 I2 P1
<b>Context</b>	
EC: M1 L2	TC: A1
SS: 7	SC: I0 (10y)
LMS: 3500 (0 %SE)	ASIC: Many

# 2010-C ANIMAL SCIENTIST

Studies problems in animal biology, husbandry and related matters, and in the application of new knowledge to the selection, breeding, feeding, management and marketing of domestic animals and their products, performing any combination of the following duties.

Conducts controlled breeding and other experiments to understand the basic biology of animals and factors affecting the quality and quantity of their products. Investigates the feed requirements of animals and nutritive value of feed materials. Studies the effects of different types of feed and new environmental conditions on the productivity and health of animals, as related to quality and quantity of the food value and fibre produced. Advises on improved methods or developments in housing and sanitation, animal parasite and disease control, slaughtering for meat, product preparation and storage. Supervises and co-ordinates the work of technical officers and technicians. Communicates new knowledge to the scientific and lay communities.

May be concerned with a specific type of animal, or a particular aspect of animal science and be designated accordingly, e.g.

Animal Geneticist      Animal Nutritionist  
Poultry Scientist

## Related Occupations

Occupation 2012-M : Veterinary Pathologist  
Occupation 2012-M : Veterinary Parasitologist

## Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3y(D) / (Dip)	IP: T2m
or FP: GE12y PSP4-7y(PG) / (HD)	IP: T2m
HC: IRC	RQ: U1 D1 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I2 A1 P2 D2 R2 M2 L1	
PA: P1 C2 S2 W2 E1	SA: S2 I1 P2 B2 R4
<b>Context</b>	
EC: M1 L2	TC: A1
SS: 8	SC: I0 (10y)
LMS: 1250 (0 %SE)	ASIC: Many

# 2010-D FARM CONSULTANT

Develops, promotes and provides specialised agricultural consulting services to farmers.

Collects, analyses and evaluates agricultural data. Plans and develops techniques and advises farmers to assist them in solving problems such as crop rotation and improvement, and soil erosion. Demonstrates practical procedures used in solving agricultural problems. Meets with commercial organisation representatives or government specialists to inform them of available advisory services and to obtain their co-operation. Prepares activity, planning and other reports and maintains record of services rendered and effect of advice given. Inspects fields and greenhouses to analyse unhealthy growth and recommends corrective measures. Prepares information leaflets, pamphlets and other material. Prepares and conducts courses and lectures in specialised fields for farmers.

May advise farmers on readiness of crops for harvest or on curing techniques. May be designated according to field of specialisation, e.g.

Livestock Specialist      Soil and Crops Specialist

## Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3y(D) / (Dip)	IP: E5y
or FP: GE12y PSP4-7y(PG) / (HD)	IP: E5y
HC: IRE	RQ: U2 D1 V1
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P2 D2 R2 M2 L1	
PA: P2 H2 W2	SA: S1 P1 B2 R2-4
<b>Context</b>	
EC: M1 L2	TC: A1 I1
SS: 7	SC: I0 (11y)
LMS: 2000 (5 %SE)	ASIC: Many

# 2010-E PLANT SCIENTIST

Carries out research and development work with plants of actual or potential economic importance, studying growing and breeding methods to achieve higher yields, improved quality and more economical production, performing any combination of the following duties.

Conducts breeding evaluation studies of both cultivated and wild species. Studies the physiological nature of plant performance, with some or all the objectives of improving yield, quality, adaptation to specific soils or climatic conditions, and resistance to disease. Investigates crop production to determine the most effective means of planting, cultivating, fertilising, irrigating, harvesting, transportation and storage. Develops methods for control of noxious weeds, crop diseases and insect pests. Prepares advisory bulletins and disseminates educational information with respect to technical developments in agriculture. Supervises and co-ordinates the work of technical officers and technicians.

May specialise in the study of a particular category of plants and be designated accordingly, e.g.

Agronomist (Field Crops)  
Agrostologist (Pasture Grasses)

**Horticultural Scientist (Fruits, Flowers and Vegetables)**

May specialise within these categories or in other aspects of plant science and be designated accordingly, e.g.

Plant Pathologist                      Pomologist  
Turf Specialist

Plant scientists studying plants at a more fundamental level, with less emphasis on economic value, are categorised as 2012-E BOTANIST. Those studying forest trees are categorised as 2013-A FORESTER.

**Job Content Factors****Workers**

FP: GE12y PSP3y(D) / (Dip)                      IP: T2m  
or FP: GE12y PSP4-7y(PG) / (HD)                      IP: T2m  
HC: IRC                      RQ: U1 D2 V1

**Materials**

SM: D1 I2 P2 T2                      EQ: S2 K2

**Functions**

MA: I1 A1 P2 D2 R1 M1 L1  
PA: U2 S2 W2 E2                      SA: S1 I1 B2 R4

**Context**

EC: M1 L4                      TC: A1  
SS: 7                      SC: 10 (10y)

LMS: 325 (0 %SE)

ASIC: Many

**2010-F SOIL SCIENTIST**

Studies the location, characteristics, behaviour and composition of soils in order to improve soil management, ensure soil conservation, classify soil types, and increase soil productivity and fertility, performing any combination of the following duties.

Investigates soil fertility taking into account microbial population, soil fauna, content of organic matter, and presence of nitrogen, oxygen and other elements required for plant growth and productivity. Studies physical and chemical properties of soils to determine potential for growth, water absorption capacity, drainage characteristics, acidity, texture and degree of salinity. Develops soil management practices, and studies their effects on long term productivity of soil. Determines mineralogy and structure of soil constituents to

explain absorption process. Investigates mechanical properties of soils to improve tillage practices. Studies the influence of soil properties on amount and chemical content of recharge to groundwater table. Investigates and advises on soil conservation problems and farming practices to reduce soil erosion and water quality deterioration. Restores land damaged by erosion, salinity or mining by stabilising soil surfaces, improving drainage, increasing fertility and establishing vegetation. Advises on water quality and salinity problems, particularly as associated with irrigation. Supervises and co-ordinates work of technical officers, technicians and other workers.

May advise on land use and soil management. May examine layering and drainage of soils used in foundations for roads, dams, buildings and other structures. May direct soil surveys to plot boundaries of soil associations on maps. May be concerned with a particular aspect of soil science and be designated accordingly, e.g.

Pedologist                      Soil Biologist  
Soil Chemist                      Soil Conservationist  
Soil Microbiologist                      Soil Physicist

**Job Content Factors****Workers**

FP: GE12y PSP3y(D) / (Dip)                      IP: T2m  
or FP: GE12y PSP4-7y(PG) / (HD)                      IP: T2m  
HC: IRC                      RQ: U1 D2 V1

**Materials**

SM: D1 I2 P2 T2                      EQ: P1 K2

**Functions**

MA: I2 A1 P2 D2 R2 M2 L1  
PA: P1 C2 S2 W2 E2                      SA: S1 I1 P1 B2 R4

**Context**

EC: M1 L4                      TC: A1  
SS: 7                      SC: 10 (10y)

LMS: 325 (0 %SE)

ASIC: Many

**2010-Z AGRICULTURAL SCIENTISTS nec**

This residual group covers agricultural scientists not elsewhere classified in Unit Group 2010, e.g.

Oenologist; Wine Maker

**2011 VETERINARIANS**

This unit group covers occupations concerned with diagnosing, treating, controlling and preventing animal disorders and with performing other functions requiring a detailed knowledge of veterinary medicine.

**Entry Requirements** a degree in veterinary science.

**Activities include** advising on breeding, feeding and care of animals; operating animal hospitals; ensuring the fitness of animal products for human consumption; and raising animals for use in biological, medical and veterinary research.

**Related Occupations**

Occupation 2010-C : Animal Scientist  
Occupation 2012-M : Veterinary Pathologist  
Occupation 2012-M : Veterinary Parasitologist

**2011-A VETERINARIAN****Veterinary Surgeon; Veterinary Practitioner**

Diagnoses and treats, medically and surgically, animal diseases, ailments and injuries, and engages in activities to

prevent the occurrence and spread of animal diseases.

Determines the presence and nature of abnormal conditions by physical examination and by using a variety of diagnostic techniques including laboratory tests and X-ray examination.

Treats animals medically, administering drugs if required. Renders obstetrical services. Performs surgery, dresses wounds and sets broken bones. Administers sedatives, analgesics or general or local anaesthetics. Inoculates against and tests for infectious diseases. Performs autopsies to determine cause of death or uses laboratories offering diagnostic services. Advises clients on sanitary measures and on hygiene, feeding, breeding and care of animals generally.

May engage in general practice or specialise in large or small animals, a group of species, or a single species. May operate an animal hospital, clinic or boarding establishment. May tender professional services to commercial firms producing biological or pharmaceutical products. May, as an officer of a government department or agency, perform such functions as the conduct of disease control and eradication programs, advising farmers on matters relating to the health and productivity of farm animals, or conduct regular inspections of markets, slaughterhouses and meat packing establishments

to ensure that regulations governing import and export of animals and animal products are observed, and be designated accordingly, e.g.

Veterinary Investigation Officer  
Veterinary Officer

Job Content Factors

Workers	
FP: GE12y PSP5y(D)	IP:
HC: IRC	RQ: L2 U1 D2 V1 A2
Materials	
SM: D2 I2 P1 T2	EQ: P2 S1 K2 V2
Functions	
MA: I2 A1 P2 D2 R2 M2 L1	SA: S2 L2 P1 B2 R4
PA: P2 U1 S2 W2 E2	
Context	
EC: M1 L4	TC: A1 I2 T2
SS: 5	SC: I0 (10y)
LMS: 3300 (50%SE)	ASIC: Many

2012 BIOLOGICAL SCIENTISTS

This unit group covers occupations concerned with the study of living organisms and vital processes, and of their relationships to each other and to their environment.

**Entry Requirements** a degree with major studies in one or more of the biological sciences and related subjects; occupations involving research normally require a higher degree.

**Activities include** studying origin, development, growth, reproduction, structure, function, distribution and other life phenomena of a single species or community of species; planning and conducting laboratory studies of animals and plants including micro-organisms; making field trips to study species in their natural habitats; studying life processes at the cellular and sub-cellular levels; preserving specimens and preparing collections for the study of development, disease etc. studying the physical and chemical characteristics of living organisms and of the molecules which comprise them; investigating the relationships between various life forms, and between them and their environment; undertaking technical advisory and related work; preparing and publishing reports, articles and other studies.

Related Occupations

Minor Group 242	: Medical Science Occupations
Unit Group 2010	: Agricultural Scientists

May be concerned with the features and phenomena exhibited in the formation and development of an embryo, with the minute structure of tissue discernible with a microscope, or the development, structure and ageing of the nervous system, and be designated accordingly, e.g.

Embryologist  
Neuroanatomist

Histologist

Job Content Factors

Workers	
FP: GE12y PSP3y(D)	IP: T2m
or FP: GE12y PSP4-7y(PG) / (HD)	IP: T2m
HC: IR	RQ: U1 D2 V1
Materials	
SM: D1 I2 P2 T2	EQ: P2 K2
Functions	
MA: I1 A1 P2 D2 R1 M2 L1	SA: S2 L2 B2 R4
PA: P2 S2 W2 E1	

2012-A ANATOMIST  
Morphologist

Studies morphology of humans and animals to increase scientific knowledge and to develop practical applications in medicine and biology.

Investigates the form and structure of organs and tissues of the body by systematic observation and dissection including microscopic examination. Investigates the function and chemical composition of organs and tissues. Carries out experiments and investigates such anatomical characteristics and reactions as the ability to regenerate damaged or destroyed parts of the body and the possibility of transplanting organs and tissue from one living body to another, or organs from a cadaver to a living body. Prepares, or supervises preparation of, scientific reports based on observations and experiments. Applies statistical and mathematical techniques to the measurement of structure. Relates structural patterns to function. Supervises and co-ordinates the work of technical officers and technicians.

<i>Context</i>	
EC: L1	TC: A1
SS: 7	SC: 10 (10y)
LMS: 200-300 (0 %SE)	ASIC: Many

## 2012-B AQUATIC BIOLOGIST

Studies origin, relationship, development, functions and effects of plants and animals that live in water.

Undertakes field and laboratory studies of origin, development, functions, structure, distribution, environment, inter-relationship, behaviour and other aspects of plants and animals that live in water. Identifies, classifies and preserves specimens and prepares collections to assist in studies. Examines biological specimens in laboratories. Co-ordinates and evaluates data obtained and prepares, or supervises preparation of, reports and scientific papers. Supervises and co-ordinates the work of technical officers and technicians.

May specialise in areas according to habitat, biological group, or level of biological organisation and be designated accordingly, e.g.

Limnologist (Freshwater)

Marine Biologist (Salt-Water)

### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (PG)	IP: T2m
or FP: GE12y PSP5-7y(HD)	IP: T2m
HC: IRA	RQ: U1 D2 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P2 K2
<i>Functions</i>	
MA: I1 A1 P2 D2 R1 M2 L1	
PA: P2 S2 W2 E1	SA: S2 L2 B2 R4
<i>Context</i>	
EC: M2 L4 C08	TC: A1 I2
SS: 7	SC: 10 (10y)
LMS: 100-200 (0 %SE)	ASIC: Many

## 2012-C BIOCHEMIST

Studies the chemistry of living organisms to advance scientific knowledge and to develop medical, veterinary, agricultural, industrial and other applications.

Investigates the chemical structure and function of living cells, organs and tissues of man, animals, plants or micro-organisms. Studies chemical events involved in physiological processes, such as digestion, muscle contraction, nerve transmission, excretion, photosynthesis, nitrogen fixation, cell division, growth, ageing, reproduction, adaptation to changed diet or environment, antibody production. Isolates, identifies, characterises and assays enzymes, hormones, metabolites and other substances produced by living cells or tissues. Investigates the roles of vitamins, hormones and minerals and the effects of toxic substances etc. on physiological processes. Develops new and improved methods for the preparation of enzymes, serums and vaccines, hormones and other products derived from animals, plants, tissue cultures or micro-organisms. Defines the biochemical reactions involved in fermentation, recombinant DNA technology, water purification, sewage treatment and other such processes.

May be concerned with industrial processes in the manufacture of pharmaceuticals, foods, beverages and other products. May specialise in the study of proteins, enzymes, nucleic acids etc. May be designated according to specialisation, e.g.

Enzyme Chemist

Molecular Biologist

Biochemists mainly concerned with biochemical analysis and investigation to assist in the diagnosis and treatment of disease are classified as 2420-B CLINICAL BIOCHEMIST. Those mainly concerned with the processing, preservation, storage and transport of food are classified as 2000-E FOOD CHEMIST.

### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (PG)	IP: T2m
or FP: GE12y PSP5-7y(HD)	IP: T2m
HC: IRC	RQ: U1 D2 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P2 K2
<i>Functions</i>	
MA: I1 A1 P2 D2 R1 M2 L1	
PA: P2 S2 W2 E1	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1 C13	TC: A1 I2
SS: 7	SC: 10 (12y)
LMS: 400-500 (0 %SE)	ASIC: Many

## 2012-D BIOPHYSICIST

Studies the physical characteristics and behaviour of macromolecules, living cells and organisms, and the interaction with, and effects of various forms of energy on, living matter to increase scientific knowledge and to develop applications to the remedy and control of biological processes.

Studies the functions and physical mechanisms of seeing, hearing, tasting, smelling and feeling. Investigates mechanisms of control by nervous systems, including the transfer of information from the sensory organs to the brain and thence to organs and muscles, and its manipulation and storage. Studies the absorption and conversion of light energy in the process of photosynthesis or by the retina in the eye. Examines physical forces involved in molecular replication and heredity. Studies the structure and spatial conformation of proteins and determines the effects of radiation on them. Traces circulatory system and heart action to observe physical flow properties of blood with respect to pressure, fluidity and friction. Applies knowledge to develop laboratory and clinical devices and techniques such as laboratory equipment, artificial organs and limbs, heart-lung pump systems and respirators. Prepares, or supervises the preparation of, scientific papers and reports on particular aspects of biophysics. Supervises and co-ordinates the work of technical officers and technicians.

May construct mathematical models which describe cycles or control phenomena in living tissue and organisms. May apply knowledge of the transfer, manipulation and storage of information in the human brain to the development of computers. May be concerned with a particular aspect of biophysics and be designated accordingly, e.g.

Molecular Biophysicist

Radiation Biophysicist

Biophysicists mainly engaged in the clinical diagnosis and treatment of human diseases are excluded and classified in Minor Group 242.

### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(PG) / (D)	IP: T2m
or FP: GE12y PSP5-7y(HD)	IP: T2m
HC: IRC	RQ: U1 D2 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: I1 A1 P2 D2 R1 M1 L1	
PA: P1 S2 W2 E2	SA: S2 B2 R4
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 7	SC: 10 (10y)
LMS: 200-400 (0 %SE)	ASIC: Many

## 2012-E BOTANIST

Studies the morphology, ecology, biochemistry, physiology, genetics, distribution, structure, and taxonomy of plants to increase scientific knowledge and to demonstrate applications in, for example, agriculture, forestry, horticulture and medicine.

Investigates the effects on type, extent and distribution of plant growth of environmental factors such as rainfall, temperature, sunlight, soil, topography and disease. Grows

plants under controlled conditions to determine optimum soil, climate and other aspects of environment, to assess relative significance of environmental and genetic bases of variation, and to elucidate patterns of plant evolution. Studies the nature and occurrence of plant chromosomes, cells and tissues. Makes field and laboratory studies of plant groups to produce and revise natural classifications. Prepares handbooks for identification of plants. Prepares reports, articles and studies for scientists and others. Supervises and co-ordinates the work of technical officers and technicians.

May explore little known areas to search for, identify and classify new species of plants. May co-operate with other scientists in the development of drugs, medicines and other useful products from plants. May be concerned with a particular aspect of plant science and be designated accordingly, e.g.

Mycologist	Plant Anatomist
Plant Geneticist	Plant Morphologist
Plant Physiologist	Plant Taxonomist

Botanists mainly engaged in research and development work related to the actual or potential economic use of plants are classified as 2010-E PLANT SCIENTIST.

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3-4y(PG) / (D)	IP: T2m
or FP: GE12y PSP5-7y(HD)	IP: T2m
HC: IRA	RQ: U1 D2 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P2 D2 R1 M2 L1	
PA: P2 S2 W2 E1	SA: S2 L2 B1 R4
<b>Context</b>	
EC: M2 L4	TC: A1 I2
SS: 7	SC: I0 (10y)
LMS: 300-250 (0 %SE)	ASIC: Many

#### 2012-F ECOLOGIST

Studies the relationships between animal and plant life and the environmental factors involved, and undertakes technical advisory work in this field.

Investigates the structure of communities of organisms and attempts to predict the effects of perturbations by, for example, human activities. Plans and conducts field trips to study animals and plants in their natural environment. Studies the effects on animal and plant life of such factors as terrain, altitude, climatic conditions, type and sources of nutrition, and natural enemies. Assembles and analyses data and correlates them with work of other scientists. Evaluates results and prepares reports of conclusions. Uses understanding of population dynamics to recommend policy for pest control or for management of biological resources for conservation or for harvesting (e.g. of fish populations, forests).

May collect specimens for laboratory study. May reproduce, for observation and research, particular natural environmental conditions, or construct mathematical models of environments for computer analysis.

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3-4y(PG) / (D)	IP: T2m
or FP: GE12y PSP5-7y(HD)	IP: T2m
HC: IRA	RQ: U1 D2 V1 A2
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P2 D2 R1 M1 L1	
PA: P2 S2 W2 E1	SA: S2 L2 P2 B2 R4
<b>Context</b>	
EC: M2 L4	TC: A1
SS: 7	SC: I0 (10y)
LMS: 200-400 (0 %SE)	ASIC: Many

#### 2012-G ENTOMOLOGIST

Studies the classification, biology, ecology and control of insects and allied forms of life.

Identifies and classifies all species of insects and allied forms of life such as spiders, ticks and worms. Studies insect physiology to determine manner in which insect organisms function. Investigates insect distribution and habitats. Recommends methods of preventing importation and spread of injurious insects and of encouraging growth and spread of beneficial types. Studies the availability of nectar and pollen from various plants as food for pollinating insects. Investigates causes and progression of pest outbreaks, and recommends methods of avoiding or minimising damage from them. Devises means to control or eliminate harmful insects using insecticides or biological methods, including the use of pathogens, predators and parasites. Conducts laboratory and field tests of insecticides. Improves strains of beneficial insects such as bees by selective breeding using artificial insemination and other means. Prepares or supervises preparation of laboratory reports, guides to control, guides to identification and scientific papers. Supervises and co-ordinates the work of technical officers and technicians.

May specialise by species of insect or aspect of entomology and be designated accordingly, e.g.

Forest Entomologist	Insect Ecologist
Insect Pathologist	Soil Zoologist

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3-4y(PG) / (D)	IP: T2m
or FP: GE12y PSP5-7y(HD)	IP: T2m
HC: IRA	RQ: U1 D2 V1 A2
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P2 D2 R1 M2 L1	
PA: P2 S2 W2 E1	SA: S2 L2 B1 R4
<b>Context</b>	
EC: T2 M2 L4	TC: A1 I2
SS: 7	SC: I0 (10y)
LMS: 100-300 (0 %SE)	ASIC: Many

#### 2012-H GENETICIST

Studies the inheritance of resemblances and differences among organisms related by descent, and the biochemical and physiological means by which these are established and controlled.

Studies the origin, transmission and development of hereditary characteristics in organisms ranging from viruses and bacteria to advanced plants and animals. Determines genetic composition of organisms as affecting characteristics such as colour differences, size, crop yield, climatic adaption or susceptibility to specific diseases. Analyses the physical and chemical factors of genes which influence specific traits. Induces mutations or inheritable changes, to study the fundamental laws of heredity or to improve the quality of plants and animals of economic importance, using radiation, chemicals or other mutagenic agents. Analyses genetic composition of populations and attempts to show how they may evolve through mutation and selection. Cross-breeds animals and plants within and between different strains to study the relationships between characteristics or to obtain new combinations with desirable characteristics. Supervises and co-ordinates the work of technical officers and technicians.

May be concerned with a particular aspect of genetics and be designated accordingly, e.g.

Cell Biologist	Cytogeneticist
Developmental Geneticist	Molecular Biologist
Molecular Geneticist	Population Geneticist

**Job Content Factors****Workers**

FP: GE12y PSP3-4y(PG) / (D)	IP: T2m
or FP: GE12y PSP5-7y(HD)	IP: T2m
HC: IRC	RQ: U1 D2 V1

**Materials**

SM: D1 I2 P2 T2	EQ: P2 K2
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**Functions**

MA: I1 A1 P2 D2 R1 M1 L1	
PA: P2 S2 W2 E1	SA: S2 L2 B2 R4

**Context**

EC: M2 L1 C13	TC: A1 I2
SS: 7	SC: 10 (10y)

LMS: 100-300 (0 %SE)

ASIC: Many

**2012-I MICROBIOLOGIST**

Studies the nature and characteristics of bacteria, viruses, algae, protozoa and other micro-organisms, and their impact on their environments and hosts, to increase scientific knowledge, to exploit their useful properties, and to protect humans, animals, plants or the environment from them.

Studies the form, structure, reproduction, physiology and metabolism of micro-organisms and the products of their chemical activity. Examines the distribution of micro-organisms in nature, their relation to other living things and their reaction to chemical and physical factors in the environment. Identifies micro-organisms by examination of their physiological, morphological and cultural characteristics. Observes action of micro-organisms upon living tissue of plants and animals and other micro-organisms. Analyses substances such as acids, alcohols and enzymes produced by micro-organisms acting on organic matter. Studies the growth, development and nutritional requirements of micro-organisms in their natural surroundings, synthetic media and in cell and tissue culture, observing conditions favourable for their reproduction, dissociation or destruction. Prepares, or supervises the preparation of, scientific papers dealing with a particular aspect of microbiology. Supervises and co-ordinates the work of technical officers and technicians.

May be concerned with a particular category of micro-organisms and be designated accordingly, e.g.

Bacteriologist	Virologist
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May specialise in a particular application of microbiological knowledge and be designated accordingly, e.g.

Dairy Bacteriologist	Food Bacteriologist
Soil Bacteriologist	

Microbiologists mainly engaged in the clinical diagnosis, treatment and control of human diseases are excluded and classified as 2420-B CLINICAL LABORATORY MICROBIOLOGIST.

**Job Content Factors****Workers**

FP: GE12y PSP3-4y(PG) / (D)	IP: T2m
or FP: GE12y PSP5-7y(HD)	IP: T2m
HC: IRC	RQ: U1 D2 V1

**Materials**

SM: D1 I2 P2 T2	EQ: P1 K2
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**Functions**

MA: I1 A1 P2 D2 R1 M2 L1	
PA: P1 S2 W2 E1	SA: S2 L2 B2 R4

**Context**

EC: L1 C13	TC: A1 I2
SS: 7	SC: 10 (10y)

LMS: 1000 (0 %SE)

ASIC: Many

**2012-J PARASITOLOGIST**

Studies the structure and function of parasitic metazoa and protozoa, and their interaction with human and animal hosts, to increase scientific knowledge and to develop and apply improved means of controlling them.

Studies the taxonomy, morphology, ultrastructure, life cycles, development, physiology and biochemistry of metazoan and protozoan parasites. Investigates the effects of parasites on humans, domestic animals and wildlife, and their symptomatology, pathology and immunology. Studies the epidemiology of parasitic diseases to determine methods of control, using a knowledge of the biology of the hosts involved in the cyclic pattern of the parasite's existence. Prepares, or supervises the preparation of, scientific papers and reports on parasitology. Supervises and co-ordinates the work of technical officers and technicians.

May be concerned with a particular type of parasite and be designated accordingly, e.g.

Helminthologist	Nematologist
Protozoologist	

Parasitologists mainly engaged in the clinical diagnosis, treatment and control of parasitic diseases in humans are excluded and classified in Minor Group 242.

**Job Content Factors****Workers**

FP: GE12y PSP3-4y(PG) / (D)	IP: T2m
or FP: GE12y PSP5-7y(HD)	IP: T2m
HC: IRC	RQ: U1 D2 V1

**Materials**

SM: D1 I2 P2 T2	EQ: P2 K2
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**Functions**

MA: I1 A1 P2 D2 R1 M2 L1	
PA: P2 S2 W2 E1	SA: S2 L2 B2 R4

**Context**

EC: L1 C13	TC: A1 I2
SS: 7	SC: 10 (10y)

LMS: 100-300 (0 %SE)

ASIC: Many

**2012-K PHARMACOLOGIST**

Studies actions of drugs and other substances on the tissues, organs and physiological processes of living organisms, develops drugs which are useful in prevention and treatment of disease, and advises on the physiological effects of substances in the environment of living organisms.

Performs experiments, drug dosage studies, tests and analyses to determine the effects of drugs and chemicals on metabolism, cell growth and reproduction, digestion and other life processes. Collaborates with other medical and biological scientists in testing drugs and standardising drug dosage for medicinal use on the basis of animal tests and knowledge gained from clinical experience. Analyses substances which may be taken into the body, including food additives, industrial contaminants and drugs to determine their effect on human and animal cells, tissues, organs and life processes. Prepares reports and papers for publication or presentation to government and other committees. Supervises and co-ordinates the work of technical officers and technicians.

May prepare and publish information on drugs and the effects of their use and abuse. May be concerned with detecting and identifying harmful and poisonous substances and be designated accordingly, e.g.

Toxicologist

Pharmacologists mainly engaged in the clinical testing and evaluation of drugs in conjunction with medical practitioners and pharmacists in hospital laboratories are classified as 2420-B CLINICAL PHARMACOLOGIST.

**Job Content Factors****Workers**

FP: GE12y PSP3-4y(PG) / (D)	IP: T2m
or FP: GE12y PSP5-7y(HD)	IP: T2m
HC: IRC	RQ: U1 D2 V1

**Materials**

SM: D1 I2 P2 T2	EQ: P1 K2
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**Functions**

MA: I1 A1 P2 D2 R1 M2 L1	
PA: P1 S2 W2 E1	SA: S2 L2 I2 B2 R4

<i>Context</i>	
EC: L1 C13	TC: A1 I2
SS: 7	SC: 10 (10y)
LMS: 200-400 (0 %SE)	ASIC: Many

**2012-L PHYSIOLOGIST**

Studies cellular structures, organ systems, and the whole organism of plants and animals including human beings.

Studies respiration, circulation, excretion, movement, reproduction, nervous activity and other functions under normal and abnormal conditions. Performs experiments to determine the effects of internal and external environmental factors on life processes and functions of organisms. Studies glands and their relationship to body functions. Applies scientific knowledge to problems of physical fitness, nutrition and human endurance and similar matters, and gives technical advice as required. Prepares, or supervises the preparation of, physiology studies for use by other scientists. Supervises and co-ordinates the work of technical officers and technicians.

May be concerned with a specialised study of cells, glands and organ systems of plants or animals and be designated accordingly, e.g.

Cellular Physiologist                      Endocrinologist  
Neurophysiologist

**Job Content Factors**

<i>Workers</i>	
FP: GE12y PSP3-4y(PG) / (D)	IP: T2m
or FP: GE12y PSP5-7y(HD)	IP: T2m
HC: IRC	RQ: U1 D2 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: I1 A2 P2 D2 R1 M2 L1	
PA: P1 S2 W2 E1	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 10	SC: 10 ( 8y)
LMS: 200-400 (0 %SE)	ASIC: Many

**2012-M ZOOLOGIST**

Studies the structure, function, behaviour, taxonomy, evolution and ecology of animals to increase scientific knowledge and to develop applications in such fields as conservation, wildlife management, vermin and pest animal

control, agriculture, fisheries and medicine.

Investigates the ways in which animals influence and are themselves influenced by their environment through studies of them in natural surroundings, captivity and the laboratory. Acquires specimens for laboratory study and zoological collections. Studies and carries out experiments on animals both in field and laboratory to identify species and to gather data on their growth, nutrition and reproduction, and on their prey and predators. Studies development and functions of animal organisms. Devises methods for population control, especially of vermin and pest animal species. Prepares, or supervises the preparation of, laboratory reports and scientific papers. Supervises and co-ordinates the work of technicians.

May be concerned with a particular species of animal, or with a particular aspect of zoology, and be designated accordingly, e.g.

Animal Ecologist                      Animal Physiologist  
Animal Taxonomist                  Herpetologist  
Ichthyologist                          Mammalogist  
Ornithologist                          Veterinary Pathologist  
Veterinary Parasitologist

Zoologists mainly engaged in research and development work related to the biology and husbandry of domestic animals are classified as 2010-C ANIMAL SCIENTIST. Those concerned mainly with insects and allied forms of life are classified as 2012-G ENTOMOLOGIST.

**Job Content Factors**

<i>Workers</i>	
FP: GE12y PSP3-4y(PG) / (D)	IP: T2m
or FP: GE12y PSP5-7y(HD)	IP: T2m
HC: IRA	RQ: U1 D2 V1 A2
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P2 K2
<i>Functions</i>	
MA: I1 A1 P2 D2 R1 M2 L1	
PA: P2 S2 W2 E2	SA: S2 L2 B2 R4
<i>Context</i>	
EC: M2 L4	TC: A1 I2
SS: 7	SC: 10 (10y)
LMS: 200-400 (0 %SE)	ASIC: Many

**2012-Z BIOLOGICAL SCIENTISTS nec**

This residual group covers occupations concerned with the study and application of biological principles not elsewhere classified in Unit Group 2012.

**2013 FORESTERS**

This unit group covers occupations concerned with studying, planning, establishing, developing and managing forest lands and resources for economic, recreational and environmental purposes.

**Entry Requirements** a degree in forestry or a related area; occupations involving research may require a higher degree.

**Activities include** mapping forest areas; estimating standing timber; managing timber harvesting; planning cutting programs; directing suppression of forest fires and supervising fire-prevention programs; planning and directing construction and maintenance of access roads and other forest services; and planning and carrying out projects to control flooding, soil erosion, tree diseases and insect pests in forests.

### 2013-A FORESTER Forest Manager

Studies, develops and manages forest lands and resources for economic, recreational and environmental purposes, and for the maintenance, conservation and the continuing supply of forest resources and products.

Manages forest resources to provide products and maximum long-term term benefits for the community. Observes the effects of environmental factors on the growth and health of forest plants. Studies the propagation and culture of forest trees, improvement of growing stock, site decline, and the effects of thinning on forest yield. Prepares plans for reforestation and devises efficient harvesting systems for forest products where appropriate. Investigates plans and implements management procedures to cope with the effects on forest lands of potentially catastrophic phenomena such as fires, floods, soil erosion, insect pests and diseases. Estimates volumes, sizes and quality of timber resulting from various management alternatives. Advises government, industry and the general public on forestry problems and conducts educational programs on care and value of forests. Supervises and co-ordinates the work of technicians, specialists from other disciplines working in forestry situations and other workers.

May participate in land use planning on a regional basis. May be concerned with a particular aspect of forestry and be designated accordingly, e.g.

Forestry Adviser	Forest Ecologist
Forest Geneticist	Forest Hydrologist
Forest Scientist	Harvesting Manager
Protection Forester	Sylviculturist

#### Job Content Factors

##### Workers

FP: GE12y PSP3-4y(PG) / (D)	IP: T2m
or FP: GE12y PSP5-7y(HD)	IP: T2m
HC: IRC	RQ: U1 V1

##### Materials

SM: D1 I2 P2 T2	EQ: P1 K2
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##### Functions

MA: I2 A1 P2 D2 R2 M2 L1	
PA: P1 S2 W2 E3	SA: S1 I1 B2 R4

##### Context

EC: T2 M1 L4 C01	TC: A1 I2
SS: 4	SC: 10 (12y)

LMS: 1500 (0 %SE)

ASIC: Many

## 2014 LIFE SCIENCE TECHNICAL OFFICERS

This unit group covers occupations concerned with the performance of duties described under Master Title TECHNICAL OFFICER, in the various fields of life science.

**Entry Requirements** a para-professional certificate, associate diploma or diploma in one or more of the life sciences plus up to 2 years' experience.

**Activities include** performing technical functions primarily in support of research, development and advisory work carried out by persons in professional life science occupations; conducting tests and analyses; collecting and analysing data; setting up, using and maintaining complex equipment; conducting field studies; supervising the work of technicians and other workers.

### 2014-A TECHNICAL OFFICER, AGRICULTURAL

Carries out technological functions in various areas of agriculture, primarily in support of research, advisory work, or servicing of commercial agricultural production and marketing by performing any combination of the following duties.

Performs duties as described under Master Title TECHNICAL OFFICER. Studies topographical, physical and soil characteristics of farmland, to determine its most effective utilisation and its nutrient deficiencies. Assists in developing new methods of planting, fertilising, harvesting, processing and transporting crops to achieve optimum land usage. Identifies pathogenic micro-organisms and insects, parasites, fungi and weeds deleterious to crops and livestock, and assists in devising methods of control. Conducts milk analyses to maintain standards of quality. Inspects cattle and poultry and indicates modifications to feed formulae to improve quality of livestock and accelerate marketability. Aids in controlled breeding experiments to develop improved strains with increased fertility, rate of growth and disease resistance.

May be concerned with a particular aspect of agricultural technology and be designated accordingly, e.g.

Technical Officer, Cereals	Dairy Technologist
Technical Officer, Pastoral	Poultry Technologist
Technical Officer, Horticultural	

#### Job Content Factors

##### Workers

FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
or FP: GE12y PSP3y(Dip)	IP: E0-2y
HC: IRC	RQ: U2 D2 V2

##### Materials

SM: D1 P2 T2	EQ: P1 K2
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##### Functions

MA: A2 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4

##### Context

EC: T2 M2 L4 C01	TC: A1 I2
SS: 4	SC: 9 (11y)

LMS: 4000-5000(0 %SE)

ASIC: Many

### 2014-B TECHNICAL OFFICER, BIOLOGY

Carries out technical support functions in various aspects of botany and zoology by performing any combination of the following duties.

Performs duties as described under Master Title TECHNICAL OFFICER. Assembles, systematically classifies and maintains collections of terrestrial and aquatic flora and fauna. Tests, observes and records reactions of organisms to stimuli, for example, by growing plants under controlled-light conditions or subjecting dormant seeds or insect larvae to sub-zero temperatures. Assists in experiments on heredity by

interbreeding and cross-breeding rapidly developing species and inducing mutation by irradiation. Collects and sterilises male insects by irradiating them. Prepares specimens for microscopic examination by freezing, slicing and staining them and mounting them on slides. Sets up and uses complex equipment. Labels plant nutrients and insects with isotopes and traces their absorption or activities. Assists in the testing and analysis of soils to determine factors influencing plant growth and controlling plant environment. Conducts field and laboratory studies of the distribution, morphology, physiology, life cycles and ecology of aquatic flora and fauna.

May be concerned with a particular aspect of biology, and be designated accordingly, e.g.

Technical Officer, Aquatic Biology

Technical Officer, Botany

Technical Officer, Ecological

Technical Officer, Fisheries

#### Job Content Factors

<b>Workers</b>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
or FP: GE12y PSP3y(Dip)	IP: E0-2y
HC: IRC	RQ: U2 D2 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: P2 S2 K2
<b>Functions</b>	
MA: A2 P2 D2 R3 M2 L2	
PA: P2 U2 S2 W2 E2	SA: S2 L2 B2 R4
<b>Context</b>	
EC: T2 M2 L4	TC: A1
SS: 6	SC: 10 (14y)

LMS: 4000-5000(0 %SE)

ASIC: Many

#### 2014-C

#### TECHNICAL OFFICER, MICROBIOLOGY

Carries out technical support functions in microbiology, performing any combination of the following duties.

Performs duties as described under Master Title **TECHNICAL OFFICER**. Assists in isolating and identifying live bacteria and other micro-organisms by detailed study of their microscopic appearance, growth characteristics and biochemical activities. Prepares specimens for microscopic study by smearing, dehydrating, staining and fixing micro-organisms on glass slides. Grows cultures of significant micro-organisms under appropriate conditions of environment, temperature and nutrition. Studies the environmental and nutritional requirements for the growth of bacteria and observes their reaction to changes in these conditions or to the presence of drugs. Experiments with the use of bacteria and fungi in fermentation processes relating to food, industrial products and sanitation. Investigates activities of bacteria in canned, pickled and frozen foods, and notes effects on flavour, ageing and keeping qualities of food products.

#### Job Content Factors

<b>Workers</b>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
or FP: GE12y PSP3y(Dip)	IP: E0-2y
HC: IRC	RQ: U2 D1 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1 C13	TC: A1 I2
SS: 6	SC: 10 (14y)

LMS: 4000-5000(0 %SE)

ASIC: Many

#### 2014-Z

#### LIFE SCIENCE TECHNICAL OFFICERS nec

This residual group covers occupations, not elsewhere classified in Unit Group 2014, concerned with carrying out technical support functions in the life sciences.

### 2015 LIFE SCIENCE TECHNICIANS

This unit group covers occupations concerned with the performance of duties described under Master Title **TECHNICIAN**, in various fields of life science.

**Entry Requirements** a para-professional certificate in a life science.

**Activities include** carrying out technical functions, normally in support of agricultural scientists, veterinary scientists, biological scientists, foresters or life science technical officers in life science specialisations such as agricultural science, botany, zoology, microbiology or forestry, using a knowledge of scientific principles and laboratory practices.

#### 2015-A AGRICULTURAL FIELD TECHNICIAN

Carries out technical support functions in various aspects of agricultural science by performing any combination of the following duties.

Performs duties as described under Master Title **TECHNICIAN**. Prepares seedbed, applies fertiliser and plants crops in commercial, advisory or research situations. Assists in livestock feeding in commercial agriculture, as part of service provided by agricultural supplies companies or in association with the activities of recognised agricultural research. Observes livestock at specified intervals to note changes in physical condition revealed by appetite, lustre of coat or plumage, level of activity, weight variation, and egg or milk production and quality. Records responses to diet.

Administers medication to livestock under veterinary supervision, observing and recording physical condition. Examines bovine semen to determine gamete motility and to isolate and identify pathogenic organisms. Measures semen density. Extends and preserves semen by adding diluents and antibiotics, labels it with identifying data and stores it in fast freezing agent.

May be concerned with a particular aspect of agricultural science and be designated accordingly, e.g.

Dairy Technician

Field Crop Technician

Poultry Technician

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y PSP2y(PPC)	IP: T2m
HC: IRC	RQ: U2 D2 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: P2 S2
<b>Functions</b>	
MA: A2 P2 D3 R3 M3 L2	
PA: P2 U2 S2 W2 E3	SA: S2 I1 B2 R4
<b>Context</b>	
EC: T2 M1 L4 C01	TC: A1 I2
SS: 6	SC: 9 (11y)
LMS: 2000-3000(0 %SE)	ASIC: Many

**2015-B ANIMAL TECHNICIAN**

Carries out technical functions in support of animal scientists, caring for animals in captivity and engaging in limited laboratory functions, performing any combination of the following duties.

Performs duties as described under Master Title TECHNICIAN. Assists in the handling, restraining and sexing of laboratory and other animals. Carries out experimental procedures such as taking blood and other body samples. Assists with surgical procedures including anaesthesia and post-operative care. Prepares vaccines, toxoids and serums for the prevention of human and animal diseases. Prepares standard solutions and reagents used in testing. Cleans laboratory equipment and animal quarters. Performs other technical tasks to assist animal scientists in research and other projects.

May specialise and be designated accordingly, e.g.

Veterinary Laboratory Technician

Laboratory Animal Technician; Animal House Technician

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y PSP2y(PPC)	IP: T2m
HC: IRC	RQ: D2 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: P2 S1 N2
<b>Functions</b>	
MA: A2 P2 D3 R3 M3 L3	
PA: P2 H1 S2 W2 E3	SA: S1
<b>Context</b>	
EC: L1	TC: A1 I2
SS: 7	SC: 9 (8 y)
LMS: 2000 (0 %SE)	ASIC: Many

**2015-C BOTANICAL TECHNICIAN  
Botanical Technical Assistant**

Carries out technical support functions in various aspects of botany, primarily in support of botanical testing and analysis, by performing any combination of the following duties.

Performs duties as described under Master Title TECHNICIAN. Tests seed for germination, purity and weed content. Tests plants being grown in controlled environments; marks and records growth. Prevents random pollination of plants. Cross-pollinates plants by transferring pollen from anthers of selected individuals to stigmata of others. Cultures fungi under sterile conditions to obtain spore from desirable species or strains, or to test for presence of pathogens by bioassay. Inoculates or paints plants with hormones or chemicals to determine effects on growth, disease, fungi, parasites or insects. Removes diseased tissue from plants and examines it to identify disease and its cause. Collects, dries and presses plants, and systematically identifies and catalogues them for herbarium specimens. Analyses soils. Aids in genetic

experiments to transfer morphological and physiological changes in offspring by inducing mutations in parent plants. Experiments with immunising techniques of grafting susceptible species on to disease-resistant stocks. Conducts experiments in crop rotation, to improve yield and soil conditions. Inoculates plants with viruses to break down pigmentation and produce varied coloration.

May be concerned in a particular aspect of botany and be designated accordingly, e.g.

Horticultural Technician

Mycological Technician

Plant Pathology Technician

Soil Science Technician

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y PSP2y(PPC)	IP: T2m
HC: IRC	RQ: D2 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: P2 S1
<b>Functions</b>	
MA: A2 P2 D2 R3 M3 L2	
PA: P2 S2 W2 E2	SA: S2 L2
<b>Context</b>	
EC: M2 L4	TC: A1 I2
SS: 6	SC: 9 (12y)
LMS: 4000-5000(0 %SE)	ASIC: Many

**2015-D FORESTRY TECHNICIAN  
Forestry Technical Officer**

Carries out technical functions in forest science in support of scientists and foresters engaged in forest research, management or conservation, performing any combination of the following duties.

Performs duties as described under Master Title TECHNICIAN. Gives practical effect to the plans and instructions of foresters, scientists and landowners engaged in forestry. Surveys, measures and stakes forest areas and access roads, and drafts plans and maps. Conducts forest inventories. Assists with cutting plants. Inspects and observes extent of specified disorders and diseases. Supervises logging operations in accordance with guidelines. Assists in laboratory and field experiments in genetics, nutrition and silviculture and may conduct similar and simpler experiments. Carries out field experiments by establishing, measuring and maintaining sample plots of specific plant species, and recording growth factors and other characteristics. Performs routine mathematical calculations associated with analysis of data collected. Assists in the assessment of standing forests for volume production. Carries out fire protection duties, including emergency fire-fighting as required.

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y PSP2y(PPC)	IP: T2m
HC: IRC	RQ: D2 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: P2 S1 N2
<b>Functions</b>	
MA: A2 P2 D2 R3 M3 L2	
PA: P2 U1 S2 W2 B2 E3	SA: S1
<b>Context</b>	
EC: T2 M1 L2 C01, I2	TC: A1 I2
SS: 6	SC: 9 (12y)
LMS: 4000-5000(0 %SE)	ASIC: Many

**2015-Z LIFE SCIENCE TECHNICIANS nec**

This residual group includes occupations, not elsewhere classified in Unit Group 2015, concerned with carrying out technical support functions in the life sciences.

## 2019 OTHER LIFE SCIENCE OCCUPATIONS

This residual unit group covers occupations, not elsewhere classified, concerned with observation, analysis, synthesis and related technical activities in the area of life sciences.

**Activities include** caring for animals under treatment for disease, injury or surgery; controlling, supervising and managing national parks and similar areas; and setting up apparatus and equipment for the conduct of tests and experiments.

### 2019-A VETERINARY NURSE Animal Nurse; Animal Nursing Technician

Cares for animals under treatment for disease, injury or surgery.

Sterilises surgical instruments and other equipment using germicides and autoclaves. Prepares surgical theatre for surgery by laying out surgical supplies and instruments. Shaves hair from areas of animal to be operated on. Assists, as directed, during surgery by administering anaesthetics and oxygen and by swabbing incisions. Gives medications and prescribed care during post-operative period. Performs simple laboratory tests to assist in diagnosing illnesses in animals.

May lead, wheel or carry animal to treatment room and lift onto treatment table. May receive clients, answer telephone, make appointments and accept payment on accounts. May perform the above duties without having animal nursing qualifications and be designated accordingly,

Veterinary Attendant

#### Job Content Factors

<b>Workers</b>	
FP: GE10-11y PSP2y(PPC)	IP: E1-3m
or FP: GE10y	IP: T4-5y
HC: RIS	RQ: D2 V1 A2
<b>Materials</b>	
SM: D2 P1 T2	EQ: P2 S1 W2
<b>Functions</b>	
MA: P2 D3 R3 M3 L2	
PA: P2 U1 H1 S2 W2 E3	SA: S1 I2
<b>Context</b>	
EC: L1	TC: A1 I2
SS: 7	SC: 9 (8 y)
LMS: 3000-3500(0 %SE)	ASIC: Many

### 2019-B PARK RANGER Ranger; Park Warden

Controls, supervises and manages national parks, scenic areas, historic sites, nature reserves and water supply areas.

Provides information and interprets natural features to visitors by giving lectures, guiding nature walks, showing films and answering questions. Supervises public visitation, provides assistance to visitors and collects fees from campers and visitors. Assists in management planning by providing information and making inventories of plants and animals. Is responsible for the maintenance and cleanliness of the park, its facilities and various equipment. Patrols waterways, tracks and roads to observe and report on the condition of the animals and plants. Participates in search and rescue operations, draws up fire prevention plans and is involved in hazard reduction work and fire-fighting. Protects and preserves parks, reserves and wildlife and enforces the various regulations governing these parks. Eliminates noxious weeds and vermin where appropriate.

May advance to higher positions with further training, experience and/or qualifications, and be designated accordingly, e.g.

Chief Ranger

Park Superintendent

#### Job Content Factors

<b>Workers</b>	
FP: GE10-11y PSP2y(PPC)	IP: T1y
HC: IRS	RQ: L1 D1 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S2 N2 V2
<b>Functions</b>	
MA: A2 P2 D2 R3 M3 L2	
PA: U2 H1 S2 W2 B2 E2	SA: S1 I1 B2 R3-4
<b>Context</b>	
EC: M2 L2	TC: A1 I1
SS: 5	SC: 9 (10y)
LMS: 2000-3000(0 %SE)	ASIC: Many

### 2019-C LABORATORY ASSISTANT Laboratory Attendant

As directed, sets up apparatus and equipment for the conduct of tests and experiments.

Weighs, records and prepares chemicals, samples and test materials. Provides necessary safety equipment for experiments and abides by regulations for safe working conditions. Performs routine tests and experiments in support of laboratory program or for demonstration purposes, under supervision. Assists laboratory staff to carry out tests and experiments. Cleans glassware and instruments, using solvents, brushes and cloths. Tidies sinks and work benches, returning apparatus and instruments to storage. Salvages sample bottles or other equipment for reuse. Labels containers and samples used in tests and experiments.

May keep records of chemicals and other supplies in laboratory.

#### Job Content Factors

<b>Workers</b>	
FP: GE 10-12y	IP: T1-3m
HC: RCI	RQ: D1 V1 A2
<b>Materials</b>	
SM: D2 T1	EQ: P1 S1 N2 M2 W2
<b>Functions</b>	
MA: D3 R4 M3 L2	
PA: P2 U1 C2 H2 S2 W2 E2	SA: S1 L2
<b>Context</b>	
EC: L1 C08,09,13	TC: A1 I2
SS: 2	SC: 4 (3y)
LMS: NA (0 %SE)	ASIC: Many

### 2019-Z LIFE SCIENCE OCCUPATIONS nec

This residual group covers life science occupations not elsewhere classified in Minor Group 201.

## MINOR GROUP 202

### MATHEMATICIANS AND STATISTICIANS

Mathematicians and Statisticians are classified in the following unit group.

2020 Mathematicians and Statisticians

#### 2020 MATHEMATICIANS AND STATISTICIANS

This unit group covers occupations concerned with research in mathematical and statistical theory, the development and application of mathematical and statistical techniques, methods for solving problems and producing information in natural and social science fields and the analysis of management problems requiring the formulation of mathematical models for solution by computer.

**Entry Requirements** a degree in science with major studies in mathematics, statistics or related subjects; occupations involving research normally require a higher degree.

**Activities include** research in fundamental mathematics; developing and testing models and hypotheses; applying mathematical techniques to scientific, engineering, economic and commercial problems; evaluating numerical data; designing experiments and surveys; applying mathematical and statistical techniques to the design of insurance policies, the assessment of risks and the formulation of investment plans and policies.

#### 2020-A MATHEMATICIAN (GENERAL)

Applies mathematical principles and techniques to solve scientific research, engineering, management and other problems.

Develops the mathematical theory underlying processes in the physical, biological and social sciences as a tool for describing and understanding such processes. Formulates suitable mathematical models for simulating these processes; applies the models to experimental observations; adjusts or recasts models where necessary. Applies mathematical principles and techniques in the solution of problems in research, development, production, distribution and other functional areas, utilising a knowledge of the subject matter of the field involved. Develops and performs computations and applies methods of numerical analysis. Operates or directs the operation of electronic computation equipment and other aids. Writes reports and papers for the guidance of management or for other publication.

May conduct or supervise experimental or observational studies. May write computer programs or direct and supervise programming activity. May supervise and co-ordinate the work of technicians and other staff. May act as adviser or consultant.

##### Job Content Factors

###### Workers

FP: GE12y PSP3-4y(PG) / (D)	IP: T2m
or FP: GE12y PSP5-6y(HD)	IP: T2m
HC: IRC	RQ: UI

###### Materials

SM: D2 I1 P2 T2	EQ: K1
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###### Functions

MA: I2 A1 P1 D2 R1 M1 L1	
PA: S2 W2 E1	SA: S2 L2 P2 B2 R4

##### Context

EC: L1	TC: A1
SS: 4-10	SC: 8-11 (10y)

LMS: 400-450 (0 %SE)

ASIC: Many

#### 2020-B RESEARCH MATHEMATICIAN

Carries out research in mathematics to advance fundamental mathematical knowledge and to develop and improve mathematical techniques.

Studies the fundamental theory of one or more branches of mathematics and its applications. Develops and tests models and hypotheses. Conducts experiments to discover new applications of mathematical principles and techniques for use in scientific investigations, engineering projects, operational decision-making and data processing. Writes reports and papers describing findings for publication in learned journals and elsewhere.

May advise researchers in other fields on mathematical methods and applications. May use or direct the use of computers and related aids in solving problems, including writing computer programs where appropriate. May supervise and co-ordinate the work of mathematical technicians and computer programmers. May specialise in pure or applied mathematics and be designated accordingly, e.g.

Pure Mathematician (Research)  
Applied Mathematician (Research)

##### Job Content Factors

###### Workers

FP: GE12y PSP4-7y(PG) / (HD)	IP: T2m
HC: IRC	RQ: UI

###### Materials

SM: D2 I1 P2 T2	EQ: K1
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*Functions*

MA: I1 A1 P1 D1 R1 M1 L1

PA: S2 W2 E1

SA: S2 L2 P2 B2 R4

*Context*

EC: L1

SS: 4-10

TC: A1

SC: 8-11 (10y)

LMS: 100-300 (0 %SE)

ASIC: Many

**2020-C ACTUARY**

Applies mathematical and statistical techniques to a wide range of practical problems in life insurance, superannuation funds, health insurance, friendly societies and other areas of financial activity.

Designs new types of policy, assesses risks, analyses investments, formulates corporate investment policy. Calculates company surplus and its sharing among policy holders.

May examine financial projections for general insurance companies, finance companies and other institutions. May advise governments.

*Job Content Factors**Workers*

FP: GE12y PSP3-4y(D) / (PG)

IP: T1-3y

HC: ISC

RQ: U1 V2

*Materials*

SM: D2 I1 P2

EQ: K1

*Functions*

MA: I1 A1 P1 D1 R1 M1 L1

PA: S2 W2 E1

SA: S2 L2 P2 M2 R3-4

*Context*

EC: L1

SS: 6

TC: A1

SC: 11 (10y)

LMS: 350-400 (5 %SE)

ASIC: Many

**2020-D APPLIED STATISTICIAN**

Designs statistical collections or compilations, statistical tools and processing systems, and/or uses these to produce statistical information and analyses in any field.

Assists in establishing the nature and extent of problem areas to be examined. Specifies the type and amount of statistical data required. Identifies or develops relevant concepts and classifications. Chooses, designs or develops methods of obtaining statistical data, for example, by extraction from existing records, by specific enquiry, by survey or by experiment. Determines nature and extent of survey, if required, plans and organises survey and designs questionnaires. Advises on, or controls, data collection. Evaluates and processes data obtained, using probability theory where appropriate, to provide measures of the reliability of findings. Reports on findings, arranging presentation of results in a form suitable for easy reference (summary tables, graphs and charts); describes sources of data and limitations on data reliability or utility to management personnel, researchers and others; and points out risks and probabilities attached to different decisions which might be taken on basis of findings. Analyses and interprets data to point out significant differences and relationships among sources of data. Generally advises on statistical matters. Plans and co-ordinates work in this field, supervising statistical technicians and other workers.

May work on the development of algorithms and assist in or direct the writing of computer programs for statistical processing. May specialise in one or more aspects of statistical work, or in one or more subject fields, and be designated accordingly, e.g.

Biometrician  
Quality Control Analyst  
Statistician, Demographic  
Statistician, Financial  
Statistician, Opinion Poll  
Statistician, Social Science

Market Research Analyst  
Statistician, Business  
Statistician, Economic  
Statistician, Health  
Statistician, Scientific  
Survey Statistician

*Job Content Factors**Workers*

FP: GE12y PSP3-4y(D) / (PG)

or FP: GE12y PSP5-6y(HD)

HC: IRC

IP: T2m

IP: T2m

RQ: U1

*Materials*

SM: D1 I2 P2 T2

EQ: K1

*Functions*

MA: I1 A1 P1 D2 R1 M1 L1

PA: S2 W2 E1

SA: S1 L1 I2 P2 B2 R0-4

*Context*

EC: L1

SS: 4

TC: A1

SC: 10 (10y)

LMS: 500-700 (5 %SE)

ASIC: Many

**2020-E MATHEMATICAL STATISTICIAN**

Conducts research into the mathematical basis of the science of statistics, develops statistical methodology, and advises on the practical application of statistical method.

Examines theories, such as those of probability, inference and variance, to discover mathematical bases for new and improved methods for obtaining and evaluating numerical data. Develops and tests experimental designs, sampling techniques and analytical methods. Makes recommendations concerning their utilisation in statistical surveys, experiments and tests. Investigates, evaluates and makes recommendations concerning applicability, efficiency and accuracy of statistical methods used by physical, biological and social scientists in obtaining and evaluating data. Writes reports and papers describing findings for publication in learned journals and elsewhere. May write computer programs. May supervise and co-ordinate the work of statistical technicians and other workers.

*Job Content Factors**Workers*

FP: GE12y PSP4-7y(PG) / (HD)

HC: IRC

IP: T2m

RQ: U1

*Materials*

SM: D2 I1 P2

EQ: K1

*Functions*

MA: I1 A1 P1 D1 R1 M1 L1

PA: S2 W2 E1

SA: S2 L2 P2 B2 R4

*Context*

EC: L1

SS: 4

TC: A1

SC: 10 (10y)

LMS: 500-700 (0 %SE)

ASIC: Many

**2020-F OPERATIONS RESEARCH ANALYST**

Conducts logical analyses of management and other operational problems which may involve the formulation of mathematical models of problems for solution by digital computer.

Analyses problems in terms of management information requirements. Prepares mathematical model of problem in form of one or several equations that relate constants and variables, restrictions, alternatives, conflicting objectives and their numerical parameters. Gathers, relates and identifies data with variables in model by applying personal judgment and mathematical tests. Specifies manipulative and computational methods to be applied to formulations and refers data for processing. Reviews operation and testing of model to ensure adequacy or determine need for reformulation. Prepares written reports to management, indicating problem solution or range of possible alternatives in order of desirability and probability of success in terms of cost, profit, effectiveness or risk.

May specialise in research and preparation of contract proposals, or in specifying the competence of an organisation to perform research, development or production work. May develop time and cost networks, such as program evaluation and review technique (PERT), to plan and control large scale business projects. May work in areas associated with

engineering, as when analysing and evaluating alternative physical systems such as production processes. May be associated with cybernetic studies.

#### **Job Content Factors**

##### *Workers*

FP: GE12y PSP4-7y(PG) / (HD)      IP: T2m  
HC: IRC      RQ: U1

##### *Materials*

SM: D2 I1 P2      EQ: K1

##### *Functions*

MA: I1 A1 P1 D1 R1 M1 L1  
PA: S2 W2 E1      SA: S2 L2 P1 B2 R3-4

#### *Context*

EC: M1 L1      TC: A1  
SS: 8      SC: 9 (10y)

LMS: 1000-2000(5 %SE)

ASIC: Many

#### **2020-Z MATHEMATICIANS AND STATISTICIANS nec**

This residual group covers occupations, not elsewhere classified in Unit Group 2020, concerned with the study and application of mathematical and statistical principles and techniques, and related areas.

## MINOR GROUP 203 DATA PROCESSING OCCUPATIONS

Data Processing Occupations are classified in the following unit group.

2030     Data Processers

### 2030   DATA PROCESSERS

This unit group covers occupations concerned with designing, planning, implementing, controlling and programming electronic data processing (EDP) systems, including components such as data terminals and communication networks.

**Entry Requirements** a degree/diploma with major studies, or a graduate diploma, in computer science, data processing or related subjects; occupations involving research normally require a higher degree. Trainee computer programmers may only require Year 12 in some cases.

**Activities include** analysis of computer systems; advising on availability and use of EDP resources, capabilities and technological development; application of EDP techniques to organisational systems, procedures and operations; writing, maintaining and updating computer programs for commercial, scientific and other purposes in a variety of computer languages.

#### 2030-A     COMPUTER PROGRAMMER

Writes programs in computer languages to control the operations of computers in processing data, solving problems, controlling operational functions and handling information.

Analyses objectives and problems delineated by systems analyst and distinguishes discrete elements. Prepares detailed logical design to establish the order in which data is processed, the points at which decisions must be made between alternative courses of action, and the sequence of equipment operations required. From flow charts and diagram, writes program as list of instructions for the computer in appropriate language. Arranges for its conversion by the computer into appropriate machine code. Tests the validity and logic of the program and amends where necessary. Prepares instruction documents covering the operation and maintenance of the program.

May write programs in several computer languages. May supervise and train subordinate staff. May analyse, review and rewrite programs to improve or adapt them. May specialise in the preparation of programming routines for the solution of standard problems encountered by a range of users, and be designated accordingly,

Applications Programmer

May specialise in the preparation of routines to translate material from one program language to another and be designated accordingly,

Compiler Writer

May specialise in writing programs for scientific, engineering, commercial or other application and be designated accordingly,

Scientific Programmer     Engineering Programmer

Business Programmer

Information System Programmer

May be concerned with writing machine process instructions

for a particular model of computer, and be designated accordingly,

Assembler Programmer

May act as consultant to users of computer systems and be designated accordingly,

Programming Consultant; Duty Programmer

#### *Job Content Factors*

##### *Workers*

FP: GE12y PSP	IP: T1-2y E1y
or FP: GE12y PSP3y(D) / (Dip)	IP: T2m
HC: RIC	RQ: U2 V1

##### *Materials*

SM: D1 P2 T2	EQ: K1
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##### *Functions*

MA: A1 P2 D2 R2 M2 L2	SA: S2 B2 R4
PA: S2 W2 E2	

##### *Context*

EC: L1	TC: A1 I2
SS: 9	SC: 10 (10y)

LMS: 11500 (5 %SE)

ASIC: Many

#### 2030-B     COMPUTER SCIENTIST

Conducts research into computers and computer based systems and develops techniques for their effective application and use.

Studies the basic theories of computability and finite automata, computer architecture and design, artificial intelligence, data structures and data bases, simulation, heuristics, computer languages and language generators, numerical analysis, operating systems, data communication and other areas e.g. robotics. Develops and tests architectures, techniques, languages, algorithms, structures, computer graphics and image processing, and symbolic algebraic computation for computer based systems. Writes reports and papers describing findings for publication in learned journals and elsewhere.

May specialise in one or more areas of computer science. May act as adviser or consultant.

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD)	IP: T2m
HC: IRC	RQ: U1
<b>Materials</b>	
SM: D2 I1 P2 T2	EQ: K1
<b>Functions</b>	
MA: I1 A1 P1 D2 R1 M1 L1	
PA: S2 W2 E1	SA: S2 L2 P2
<b>Context</b>	
EC: L1	TC: A1 T2
SS: 7	SC: I0 (10y)
LMS: 14750 (5 %SE)	ASIC: Many

### 2030-C SYSTEMS ANALYST

Analyses functions, operations, procedures, physical systems and technical problems of an organisation to establish the feasibility of, and develop procedures for, processing data automatically using digital computers.

Consults with management, administrative and technical staff to determine information needs, data flows and system definition. Analyses systems, methods and procedures to assess feasibility of electronic data processing (EDP) systems development. Prepares flow charts, mathematical models or other definition of project, and transforms to computer processible form. Devises means of deriving data for economic operation of computer based system. Tests programs and EDP procedures to eliminate errors. Prepares cost estimate and cost benefit analyses for EDP systems. Prepares technical reports detailing methods for EDP systems operation. Prepares instruction manuals specifying methods of operation, and maintenance of EDP system, including technical specifications, for guidance of programmers and others concerned. Supervises and co-ordinates the work of applications programmers, programmers and EDP support staff.

May write programs in one or more computer languages. May train subordinates in the techniques and use of systems analysis. May supervise and co-ordinate projects, parts of complex computer based projects or developmental or research EDP projects. May work as an adviser or consultant. May specialise in commercial, administrative, engineering or scientific systems or in planning, scheduling and analysing data storage and retrieval, and be designated accordingly, e.g.

Communications Analyst      Computer Systems Designer  
Computer Systems Engineer      Data Base Analyst  
EDP Consultant      Systems Development Officer  
Technical Systems Analyst

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3y(D) / (Dip)	IP: E2y
or FP: GE12y PSP4y(PG)	IP: E2y
HC: IRC	RQ: P2 U1 V2
<b>Materials</b>	
SM: D2 I1 P2 T2	EQ: K1
<b>Functions</b>	
MA: I1 A1 P1 D2 R1 M1 L1	
PA: S2 W2 E1	SA: S2 L2 B2 R3-4
<b>Context</b>	
EC: L1	TC: A1 T2
SS: 7	SC: I0 (11y)
LMS: 3500-4000(5 %SE)	ASIC: Many

### 2030-D SYSTEMS PROGRAMMER Software Programmer

Writes, maintains and updates the programs employed in a computer to control its overall functioning and allow it to accept computer languages (operating systems software) and translate these into machine code.

Confers with systems analysts, programmers and computer equipment suppliers on problems, improvements and modifications to computer system software. Modifies, amends and updates software programs as required using a program language or machine code and knowledge of the capabilities and limitations of both computer equipment and software. Prepares reports, manuals and documentation on the status of system software for use by computer equipment suppliers, systems analysts, programmers and computer operating staff.

May assist in design of operating system or other system software, supervise or train subordinate programmers, or independently develop, test and prove modifications to system software and be designated accordingly, e.g.

Senior Software Programmer  
Senior Systems Programmer  
Software Development Programmer  
Software Supervisor

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3y(D) / (Dip)	IP: E3y
or FP: GE12y PSP4y(PG)	IP: E3y
HC: IRC	RQ: U1 V2
<b>Materials</b>	
SM: D1 P2 T2	EQ: K1
<b>Functions</b>	
MA: I2 A1 P2 D2 R2 M1 L1	
PA: S2 W2 E1	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1	TC: A1 I2 T2
SS: 7	SC: I0 (12y)
LMS: 14750 (0 %SE)	ASIC: Many

### 2030-E TRAINEE COMPUTER PROGRAMMER Programmer-in-Training; Junior Programmer

Writes sub-program or portions of program in computer language for eventual assembly into a program or electronic data processing procedure.

Studies detailed flowcharts, diagrams or documentation prepared by systems analyst or programmer. Confers with supervisory analyst or programmer to resolve questions of intent, input and output data needs, data access, storage and retrieval, methods of coding and internal checks and controls. Writes sub-program or portion of program by applying knowledge of computer capabilities, subject matter and computer language. Tests and corrects operation and effectiveness of sub-program or portion of program. Prepares documentation describing the operation, nature and detail of the sub-program or portion of program.

May assist in developing groups of sub-programs in conjunction with supervisory programmer or programmer and other programmers-in-training. May specialise in a particular computer language.

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3y(D) / (Dip)	IP:
or FP: GE12y	IP: T1m
HC: IRC	RQ: U2 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: K1
<b>Functions</b>	
MA: A2 P2 D3 R3 M2 L2	
PA: S2 W2 E1	SA: S2 L2
<b>Context</b>	
EC: L1	TC: A1 I2
SS: 2	SC: I0 (2 y)
LMS: 22500 (0 %SE)	ASIC: Many

### 2030-Z DATA PROCESSERS nec

This residual group covers occupations, not elsewhere classified in Unit Group 2030, concerned with processing data, solving problems and controlling operations using computers and associated electronic equipment.

## MINOR GROUP 204 ENGINEERING OCCUPATIONS

Engineering Occupations are classified in the following unit groups.

- 2040 Chemical Engineers
- 2041 Civil Engineers
- 2042 Electrical Engineers
- 2043 Mechanical Engineers
- 2044 Metallurgical and Materials Engineers
- 2045 Engineers (Other)
- 2046 Engineering Drafting and Other Technical Officers
- 2047 Engineering Technicians and Drafting Assistants
- 2049 Other Engineering Occupations

### *Related Occupations*

Occupation 3001-C : Industrial Designer

### 2040 CHEMICAL ENGINEERS

This unit group covers occupations concerned with the application of chemistry and other sciences together with engineering technology, to manufacturing and chemical process operations etc.

**Entry Requirements** a degree in chemical engineering; occupations involving research may require a higher degree.

**Activities include** research into, and design and development of, manufacturing processes in which chemical and physical changes occur; supervision of the construction, installation, operation and maintenance of chemical plant equipment; preparing process flow diagrams and selecting unit process equipment; studying pollution-control problems; preparing reports and detailed costings on proposed or current processes or operations; supervising and co-ordinating the work of technical officers, technicians, operators, and trades and other workers.

#### 2040-A CHEMICAL ENGINEER (DESIGN)

Designs and prepares specifications for process systems and for the erection and operation of commercial-scale chemical plants and control systems for new or improved products or processes, performing any combination of the following duties.

Performs duties as described under Master Title DESIGN ENGINEER. Prepares designs for chemical processes, and plans control systems for processes such as those used to remove and separate components, effect chemical changes, test and evaluate fuels, transfer heat by conduction, convection or radiation, and control the storing and handling of solids, liquids and gases. Designs pilot plants and supervises their operation. Prepares analytical reports, cost estimates, feasibility studies, and detailed costings of processes. Provides advice and information to sales personnel responsible for field evaluation of products or processes, or to market research personnel responsible for estimating market volume and selling price. Consults with patent attorneys to ensure

proprietary interests are protected on new products or processes developed. Incorporates features concerned with environmental pollution and safety in all designs.

May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May review tenders and supervise contracts. May specialise in the design of one particular class of process and be designated accordingly, e.g.

- Chemical Project Engineer
- Combustion Engineer
- Design Engineer (Control Systems)
- Design Engineer (Petrochemical Processes)
- Design Engineer (Water Treatment)

#### *Job Content Factors*

##### *Workers*

FP: GE12y PSP4-5y(D) / (PG)  
HC: IRC

IP: T2m  
RQ: U1 V1

##### *Materials*

SM: D2 I1 P2 T2

EQ: P2 K2

<i>Functions</i>	
MA: I1 A1 P1 D2 R1 M1 L1	
PA: P2 S2 W2 E1	SA: S2 L2 P2 B1 R4
<i>Context</i>	
EC: M2 L1	TC: A1
SS: 7	SC: 10 (12y)
LMS: 600-690 (5 %SE)	ASIC: Many

#### 2040-B CHEMICAL ENGINEER (PRODUCTION) Chemical Engineer (Manufacturing)

Supervises industrial processing, fabrication, maintenance and repair operations to ensure production of scheduled amounts of products undergoing physical and chemical changes, performing any combination of the following duties.

Performs duties described under Master Title PRODUCTION ENGINEER. Specialises in the operation and maintenance of equipment such as distillation and absorption towers, evaporators, heat exchangers, pumps, and mixing, blending and separating equipment so as to achieve the maximum efficiency. Controls processes by means of instrumentation, automatic devices and computers. Ensures that correct materials and equipment are used and that they conform to specifications. Interprets analyses and quality control reports from research engineers, design engineers, chemists and other technical workers. Diagnoses malfunctions and institutes remedial action to ensure continued efficient operation. May specialise in a particular process or product and be designated accordingly, e.g.

Ammonia Production Engineer  
Ethylene Production Engineer  
Lead Smelting Engineer  
Sewage Treatment Engineer

##### *Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T2m
HC: IRC	RQ: U2 D2 V2
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P2 K2
<i>Functions</i>	
MA: I2 A1 P1 D2 R2 M2 L1	
PA: P2 S2 W2 E2	SA: S2 L2 M2 R1-4
<i>Context</i>	
EC: L4 C02,12	TC: A1 I2 T2
SS: 7	SC: 10 (12y)
LMS: 1200-1380(5 %SE)	ASIC: Many

#### 2040-C CHEMICAL ENGINEER (RESEARCH)

Conducts applied research and solves engineering problems concerned with development and improvement of new or existing chemical products or processes, on a commercial scale, performing any combination of the following duties.

Performs duties as described under Master Title RESEARCH ENGINEER. Specialises in the conduct of experiments and correlation of data gained from work in areas such as chemical reaction, fluid flow, heat and mass transfer, distillation, drying, corrosion and properties of materials, dynamic behaviour of processes, hazards and operability. Makes calculations of such quantities as heat transfer, specific heats and equilibrium constants, and process efficiencies. Evaluates relative merits of batch and continuous flow operation. Carries out mathematical modelling and computer simulation of complex processes. Prepares process flow diagrams and selects unit process equipment. Investigates materials of construction to minimise corrosion and contamination. Estimates scale-up ratios and optimises process conditions. Studies product utilisation and pollution control problems.

May specialise in research and development for one particular product or process, and be designated accordingly, e.g.

Environmental Research Engineer  
Polymerisation Research Engineer  
Separation Processes Research Engineer  
Systems Research Engineer

##### *Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP5-8y(PG) / (HD)	IP: T2m
or FP: GE12y PSP4y(D)	IP: T2m
HC: IRC	RQ: U1 V2
<i>Materials</i>	
SM: D2 I1 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: I1 A1 P1 D2 R1 M1 L1	
PA: P1 S2 W2 E1	SA: S2 L2 M1 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 7	SC: 10 (12y)
LMS: 200-230 (1 %SE)	ASIC: Many

#### 2040-Z CHEMICAL ENGINEERS nec

This residual group covers chemical engineers not elsewhere classified in Unit Group 2040.

### 2041 CIVIL ENGINEERS

This unit group covers occupations concerned with planning, design and supervision of the construction, operation and maintenance of roads, bridges, dams, ports, docks, building structures and other facilities for public, industrial or commercial use, and with research associated with civil engineering questions.

**Entry Requirements** a degree in civil engineering; occupations involving research may require a higher degree.

**Activities include** undertaking research and investigations into materials, processes and systems concerned with structural, hydraulic, irrigation and drainage, harbour, railway, highway, pipeline, tunnel and other aspects of civil engineering; planning and designing civil engineering structures, schemes and systems; supervising and co-ordinating the construction, operation and maintenance of civil engineering facilities and systems; studying and making recommendations on the environmental implications of such projects.

### 2041-A CIVIL ENGINEER (CONSTRUCTION)

Organises and manages the construction of structural, transportation or hydraulic engineering systems, performing any combination of the following duties.

Interprets specifications and drawings, plans, construction methods and procedures. Organises and manages site labour. Plans and organises procurement and delivery of materials, plant and equipment needed for the construction project. Establishes the detailed program needed for co-ordination of site activities. Sets up work control systems to ensure that standards of performance, quality, cost and safety are met. Administers contracts and verifies and certifies satisfactory completion. Consults with design engineers and architects to ensure that the intent of the design is realised, and with landscape designers and other workers on questions of environmental protection and aesthetics. Supervises the testing and commissioning of completed works, in conjunction with design engineers. Supervises and co-ordinates the work of engineers, technical officers, technicians and tradespersons and other workers.

May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May specialise in the construction of civil engineering works such as structural frames, water supply, sewerage and drainage projects, roads, railways, aerodromes, dams, bridges or harbours, and be designated accordingly, e.g.

Bridge Construction Engineer  
Railways Construction Engineer  
Sewerage Construction Engineer

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T2m
HC: IRC	RQ: U2 D2 V2
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I2 A1 P1 D2 R2 M1 L1	
PA: P2 S2 W2 E2	SA: S2 L2 P2 M2 R3-4
<b>Context</b>	
EC: M1 L4	TC: A1 I2 T2
SS: 7	SC: I0 (12y)
LMS: 1002 (10%SE)	ASIC: Many

### 2041-B CIVIL ENGINEER (DESIGN)

Applies engineering principles to the planning and design of civil engineering works such as structures, transportation or hydraulic systems, performing any combination of the following duties.

Performs duties as described under Master Title DESIGN ENGINEER. Specialises in the design of civil engineering projects such as structural frames, hydraulic systems, roads, aerodromes, water supply systems, dams, sewerage and drainage systems, bridges, buildings and harbours. Studies, evaluates and reports on the environmental implications of such projects. Determines construction methods, materials and quality standards.

May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May specialise in a field of civil engineering design and be designated accordingly, e.g.

Bridge Design Engineer      Hydraulic Design Engineer  
Pipeline Design Engineer      Road Design Engineer  
Sewerage Design Engineer      Structural Design Engineer

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T2m
HC: IRC	RQ: U1 D2 V2
<b>Materials</b>	
SM: D2 I1 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R1 M1 L1	
PA: P2 S2 W2 E1	SA: S2 L2 P2 M2 R4

#### Context

EC: M1 L4	TC: A1
SS: 7	SC: I0 (12y)

LMS: 1002 (10%SE)

ASIC: Many

### 2041-C CIVIL ENGINEER (OPERATIONS)

Organises and manages the operations and management of structural, transportation or hydraulic engineering systems, performing any combination of the following duties.

Plans, organises and supervises the day to day functioning of facilities and systems for the achievement of service or production objectives. Schedules planned maintenance. Directs emergency repairs following breakdowns. Analyses and interprets reports on loading, labour, productivity, quality, materials and performance. Diagnoses malfunctions and institutes remedial action to ensure efficient operation. Checks that materials and equipment conform with specifications. Ensures that performance does not breach environmental requirements. Establishes planned maintenance schedules, and co-ordinates maintenance and operations to ensure continuity of service or production. Sets up work control systems to ensure that standards of performance, quality, cost, safety and environment protection are met. Consults with design engineers to ensure that the intent of the design is achieved in operation and maintenance of the facilities. Supervises and co-ordinates the work of engineers, technical officers, technicians, tradespersons and other workers in operations and maintenance functions.

May specialise in the operation and maintenance of civil engineering facilities and systems such as water supply, sewerage and drainage systems, roads and bridges, quarrying operations, harbour facilities or concrete products manufacturing operations, and be designated accordingly, e.g.

District Road Engineer  
Sewerage Maintenance Engineer  
Water Supply Distribution Engineer

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T2m
HC: IRC	RQ: U2 D2 V2
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I2 A1 P1 D2 R2 M1 L1	
PA: P2 S2 W2 E2	SA: S2 L2 P2 M2 R3-4
<b>Context</b>	
EC: M1 L4	TC: A1 T2
SS: 7	SC: I0 (12y)
LMS: 1002 (10%SE)	ASIC: Many

### 2041-D CIVIL ENGINEER (RESEARCH)

Engages in applied research activities directed towards the investigation and evaluation of materials, processes or systems related to civil engineering works such as structures, transportation or hydraulic systems and the application of appropriate engineering and scientific theories and principles to practical engineering problems, performing any combination of the following duties.

Performs duties as described under Master Title RESEARCH ENGINEER. Conducts experiments, investigates and correlates data gained from work in areas such as concrete technology, structures, soil mechanics, hydrology, hydraulics, water and wastewater treatment processes and distribution systems. Carries out mathematical modelling and computer simulation of complex processes and systems.

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP5-8y(HD) / (PG)	IP: T2m
or FP: GE12y PSP4y(D)	IP: T2m
HC: IRC	RQ: U1 V2
<b>Materials</b>	
SM: D2 I1 P2 T2	EQ: P2 K2

<b>Functions</b>	
MA: I1 A1 P1 D2 R1 M1 L1	
PA: P2 S2 W2 E2	SA: S2 L2 P2 M2 R4
<b>Context</b>	
EC: M1 L4	TC: A1
SS: 7	SC: 10 (12y)
LMS: 331 (2 %SE)	ASIC: Many

**2041-Z CIVIL ENGINEERS nec**

This residual group covers civil engineers not elsewhere classified in Unit Group 2041.

**2042 ELECTRICAL ENGINEERS**

This unit group covers occupations concerned with research, design, manufacture, construction, operation and maintenance of electrical and electronic equipment, machines, systems and components.

**Entry Requirements** a degree in electrical, electronic or communications engineering; occupations involving research may require a higher degree.

**Activities include** undertaking research and investigations into electrical and electronic systems, equipment and components; planning and designing the manufacture and installation of electrical and electronic equipment; supervising the manufacture, operation and maintenance of electrical, electronic and communications installations and systems; preparing and evaluating specifications, tenders and contracts; evaluating, interpreting and writing reports on technical, safety, ergonomic and environment protection matters, often in association with other technical workers; engaging in engineering sales and associated commercial activities.

**2042-A ELECTRICAL ENGINEER (RESEARCH)**

Conducts research into various electrical and electronic phenomena, and evaluates and applies the results of this research in solving practical problems, performing any combination of the following duties.

Performs duties as described under Master Title RESEARCH ENGINEER. Specialises in the conduct of experiments and investigations, and the correlation of data gained from work in areas such as: power generation and transmission systems; transformers, switchgear, and electric motors and their controls; telemetry and remote control systems; process and systems controls; data processing equipment; radar, guidance and navigation systems; radio and other communications equipment; microwave systems. Carries out mathematical modelling and computer simulations of complex systems and networks.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP5-8y(HD) / (PG)	IP: T2m
or FP: GE12y PSP4y(D)	IP: T2m
HC: IRC	RQ: U1 V1 A2
<b>Materials</b>	
SM: D2 I1 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R1 M1 L1	
PA: P2 S2 W2 E1	SA: S2 L2 I2 M2 R4
<b>Context</b>	
EC: L1 C10	TC: A1
SS: 7	SC: 11 (12y)
LMS: 328 (1 %SE)	ASIC: Many

**2042-B COMMUNICATIONS ENGINEER**

Designs and develops circuits and equipment for manufacture and installation of communication systems, and supervises their manufacture, installation and testing, maintenance, and repair, operation and modification, performing any combination of the following duties.

Analyses communication traffic and the level of service in terms of such considerations as loss, level, availability, noise, cross-talk, singing, reliability, bandwidth, delay, and capital and continuing costs. Performs economic studies and prepares estimates in consultation with related engineering groups to determine a balance between level of service, information rate and economy. Determines the type of installation, location, layout and transmission medium considering factors such as underground or overhead plant, switched or direct telephone carriers, switching equipment, cables, conduits, towers, antennae, frequency, bandwidth, interval repeaters, transmission speeds and facsimile equipment. Develops methods to maintain communication circuits secure against adverse electrical effects. Supervises manufacture of equipment and the layout, installation, testing, commissioning, operation and maintenance of communication systems and installations. Prepares and evaluates designs, specifications, tenders and contracts, and examines installations to ensure compliance with contract conditions. Establishes standards of performance and safety, and procedures for modification, maintenance and repair and ensures compliance with them. Evaluates, interprets and writes reports and papers. Supervises and co-ordinates the work of engineers, technical officers, technicians and tradespersons and other workers.

May specialise in a particular aspect of communications engineering and be designated accordingly, e.g.

Antennae Engineer                      Radio Engineer  
Telecommunication Engineer  
Television Engineer

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T2m
HC: IRC	RQ: U1 V1 A2
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1	
PA: P2 S2 W2 E2	SA: S2 L1 P2 M2 R4

## Context

EC: L1  
SS: 7TC: A1 I2 T2  
SC: 11 (12y)

LMS: 656 (5 %SE)

ASIC: Many

**2042-C ELECTRICAL POWER ENGINEER**

Designs, develops and supervises the manufacture, installation, operation and maintenance of equipment, machines and systems for the generation, distribution, utilisation and control of electric power, performing any combination of the following duties.

Undertakes the planning and design work needed for the manufacture and installation of electric power equipment and facilities such as power generation and distribution systems, electrical installations in factories and other buildings, public lighting systems, and the electric motor drives and associated control systems and circuitry for industrial machinery and processes. Determines the type and arrangement of circuits, transformers, circuit-breakers, transmission lines and other equipment, on the basis of complex calculations. Develops products such as electric motors, components, equipment and appliances. Interprets specifications, drawings, standards and regulations relating to electric power equipment and use. Plans and supervises manufacturing methods and construction procedures. Establishes delivery and installation schedules for machines, switchgear, cables and fittings. Supervises the operation and maintenance of such facilities as power stations, transmission and distribution systems, and industrial plants. Supervises and co-ordinates the work of engineers, technical officers, technicians, tradespersons and other workers.

May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May specialise in the planning, design, development and modification of electrical systems, installations, equipment and components, performing duties as described under Master Title DESIGN ENGINEER, and be designated accordingly, e.g.

Switchgear Design Engineer  
Transformer Design Engineer  
Transmission Line Design Engineer

May specialise in the organisation and management of the physical and human resources for the manufacture of electrical components, machines, appliances, equipment and other products, performing duties as described under Master Title PRODUCTION ENGINEER, and be designated accordingly, e.g.

Appliances Engineer  
Switchgear Engineer

May specialise in the planning and supervision of operations and/or maintenance of electrical power facilities, and be designated accordingly, e.g.

Distribution Engineer  
Maintenance Engineer, Electrical  
Power Station Engineer

May specialise in the planning, supervision and co-ordination of electrical power plant construction and installation and be designated accordingly, e.g.

Contracts Engineer, Electrical  
Power Line Construction Engineer  
Power Station Construction Engineer

**Job Content Factors****Workers**FP: GE12y PSP4-5y(D) / (PG)  
HC: IRCIP: T2m  
RQ: U1 V2**Materials**

SM: D1 I2 P2 T2

EQ: P2 K2

**Functions**MA: I2 A1 P1 D2 R2 M1 L1  
PA: P2 S2 W2 E2

SA: S2 L2 P1 M2 R3-4

**Context**EC: T2 L1 C10,12  
SS: 7TC: A1 I2 T2  
SC: 10 (12y)

LMS: 1312 (1 %SE)

ASIC: Many

**2042-D****ELECTRONIC ENGINEER**

Designs, develops and supervises the manufacture, testing, installation, operation, maintenance and modification of electronic components, equipment and systems used in such fields as industrial control, navigation, data processing and entertainment, performing any combination of the following duties.

Designs circuits for electronic control systems and instrumentation. Develops test apparatus and devises procedures to evaluate circuits utilising ferro-electric, non-linear, dielectric, photoconductive and thermo-electric properties of materials. Supervises construction of prototype circuits of controls and equipment for products such as amplifiers and sound equipment, digital and analogue instrumentation, keyboard devices, feedback controllers, telemetry and remote control systems, radar and laser echo and communications circuits, power supplies, guidance and navigational systems, microwave systems, and electronic data processing, supervisory and control systems. Determines type and arrangement of circuit elements, transistors, transducers, integrated circuits, memory elements, and processors, and linking with line or radio transmission systems, making complex computations to ensure that proper control and protection methods, and the desired level of reliability, are provided. Prepares and evaluates designs, specifications, estimates, tenders and contracts, and examines installations to ensure compliance with contract conditions. Establishes standards of performance and safety, and procedures for modification, maintenance and repair, and ensures compliance with them. Evaluates, interprets and writes reports and papers. Supervises and co-ordinates the work of engineers, technical officers, technicians, tradespersons and other workers.

May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May specialise in the planning, design, development and modification of electronic systems, equipment and components, performing duties as described under Master Title DESIGN ENGINEER, and be designated accordingly, e.g.

Electronics Design Engineer  
Process Control Design Engineer  
Systems Engineer

May specialise in the organisation and management of the physical and human resources for the manufacture of electronic components, equipment and consumer products, performing duties as described under Master Title PRODUCTION ENGINEER, and be designated accordingly.

May specialise in the planning and supervision of operations and/or maintenance of electronic equipment and systems, and be designated accordingly, e.g.

Computer Engineer Telemetry Engineer

**Job Content Factors****Workers**FP: GE12y PSP4-5y(D) / (PG)  
HC: IRCIP: T2m  
RQ: U1 V1 A2**Materials**

SM: D1 I2 P2 T2

EQ: P1 K2

**Functions**MA: I1 A1 P1 D2 R1 M1 L1  
PA: P1 S2 W2 E2

SA: S2 L2 I2 P2 M2 R4

**Context**EC: L1  
SS: 7TC: A1 I2  
SC: 10 (12y)

LMS: 984 (5 %SE)

ASIC: Many

**2042-Z****ELECTRICAL ENGINEERS nec**

This residual group covers electrical and electronic engineers not elsewhere classified in Unit Group 2042, e.g.

Logging Engineer (Fluids Drilling)  
Mines Electrical Engineer

### 2043 MECHANICAL ENGINEERS

This unit group covers occupations concerned with the application of scientific and engineering principles to the development, design, construction, operation, maintenance and repair of machines that produce, transmit or consume power or energy and the tools with which machinery and equipment are made, and the evaluation of installed plant and processes related to machines.

**Entry Requirements** a degree in mechanical or a related branch of engineering; occupations involving research may require a higher degree.

**Activities include** undertaking research and investigations into the utilisation of energy, machinery, equipment and materials; designing mechanisms, machines, mechanical installations and plants; conducting feasibility studies and evaluating installed machines, plant, processes and products; supervising construction, modification, and final testing of prototypes, products or pilot plants; organising and supervising operation and maintenance of machines and mechanical installations; studying and making recommendations on performance, safety and environmental standards of such projects.

#### 2043-A MECHANICAL ENGINEER (RESEARCH)

Engages in applied research activities directed towards the investigation and evaluation of materials, mechanisms, machines and processes, performing any combination of the following duties.

Performs duties as described under Master Title RESEARCH ENGINEER. Specialises in the conduct of experiments and investigations and in the correlation of data gained from work in areas such as utilisation of energy, materials handling, thermodynamic processes, fluid mechanics, machines, vehicles and environmental controls. Carries out mathematical modelling and computer simulations involving complex mathematical concepts.

##### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP5-8y(HD) / (PG)	IP: T2m
HC: IRC	RQ: U1 V1
<i>Materials</i>	
SM: D2 I1 P2 T2	EQ: P2 K2
<i>Functions</i>	
MA: I1 A1 P1 D2 R1 M1 L1	
PA: P2 S2 W2 E1	SA: S2 L2 P2 M2 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 7	SC: 7 (15y)
LMS: 223 (0 %SE)	ASIC: Many

#### 2043-B MECHANICAL ENGINEER (CONSTRUCTION)

Plans, organises and manages the assembly and erection of mechanical plant and installations, performing any combination of the following duties.

Interprets specifications and drawings, plans, assembly and erection methods and procedures. Organises and manages project labour. Plans and organises procurement and delivery of materials, plant and equipment needed for the project. Establishes the detailed program needed for co-ordination of project activities. Sets up work control systems to ensure that standards of performance, quality, cost and safety are met. Administers contracts and verifies and certifies satisfactory completion. Consults with design engineers to ensure that the intent of the design is realised, and with other workers on

questions of safety, environment protection and aesthetics. Supervises the testing and commissioning of completed works, in conjunction with design engineers. Supervises and co-ordinates the work of engineers, technical officers, technicians, tradespersons and other workers.

May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May specialise in an aspect of mechanical engineering construction and be designated accordingly, e.g.

Air-Conditioning Project Engineer  
Boiler Erection Engineer  
Contracts Engineer, Mechanical

##### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T2m
HC: IRC	RQ: U2 D2 V2
<i>Materials</i>	
SM: D2 P2 T1	EQ: K2
<i>Functions</i>	
MA: I2 A1 P1 D2 R2 M2 L1	
PA: S2 W2 E2	SA: S2 L1 I2 P2 B2 R4
<i>Context</i>	
EC: M2 L4 C04,09,12	TC: A1 T2
SS: 7	SC: I1 (12y)
LMS: 669 (3 %SE)	ASIC: Many

#### 2043-C MECHANICAL ENGINEER (DESIGN)

Plans, designs and develops machines, mechanisms, equipment and mechanical plant and systems, performing any combination of the following duties.

Performs duties as described under Master Title DESIGN ENGINEER. Specialises in the design of mechanical components, machines, equipment and products for manufacture, or of plant and systems to be constructed. Analyses design proposals, and accumulates and analyses basic data such as characteristics of material to be handled, performance and loading requirements, thermodynamic conditions, environmental constraints on emissions, and machine characteristics. Designs products such as engines, pumps, production machines and equipment, and develops specifications for manufacture. Designs mechanical plant and installations, determining and selecting equipment, piping, material flows, capacities and plant layouts.

May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May specialise in a field of mechanical engineering design and be designated accordingly, e.g.

Boiler Design Engineer      Pump Design Engineer  
Tool Design Engineer

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T2m
HC: IRC	RQ: U1 V2
<b>Materials</b>	
SM: D2 I1 P2 T2	EQ: K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R1 M1 L1	
PA: S2 W2 E1	SA: S2 L2 I2 P2 B1 R4
<b>Context</b>	
EC: L1	TC: A1
SS: 7	SC: I1 (12y)
LMS: 446 (3 %SE)	ASIC: Many

### 2043-D MECHANICAL ENGINEER (OPERATIONS)

Plans, organises and manages the operation and maintenance of mechanical and process plant and installations to achieve production or service objectives, performing any combination of the following duties.

Supervises the day-to-day functioning of mechanical plant and installations, such as manufacturing process plant, coal handling installations, power station steam generating systems, and sewerage and water supply pumping and treatment stations. Analyses and interprets reports on energy consumption, efficiency, loading, labour, quality, materials and performance. Diagnoses malfunctions and institutes remedial action to ensure efficient operation. Ensures that materials and equipment conform to specifications and that performance adheres to environmental requirements. Establishes planned maintenance schedules to co-ordinate maintenance and operational requirements. Sets up work control systems to ensure that standards of performance, quality, cost, safety and environmental protection are met. Supervises and co-ordinates the work of engineers, technical officers, technicians, and trades and other workers.

May specialise in a particular aspect or field of mechanical engineering and be designated accordingly, e.g.

Maintenance Engineer      Plant Engineer  
Power Station Engineer, Mechanical

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T2m
HC: IRC	RQ: U2 V2
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 M2 K2

#### Functions

MA: A1 P1 D2 R2 M2 L1	
PA: P2 S2 W2 E2	SA: S2 L2 P2 M2 R4
<b>Context</b>	
EC: L1 C04,09	TC: A1 I2 T2
SS: 7	SC: I1 (12y)
LMS: 446 (3 %SE)	ASIC: Many

### 2043-E MECHANICAL ENGINEER (PRODUCTION) Industrial Engineer

Plans, co-ordinates and supervises the operation of industrial machinery and equipment to promote economic, safe and effective use of physical and human resources, performing any combination of the following duties.

Performs duties as described under Master Title PRODUCTION ENGINEER. Specialises in the use of machining, pressing, welding, hardening, plating, cleaning, and other processes using new or existing machinery or equipment. Evaluates performance of machinery and equipment to determine suitability for manufacturing application and the need for modification or replacement to ensure operating efficiency within economic limits. Supervises and co-ordinates the work of engineers, technical officers, technicians and tradespersons and other workers.

May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May specialise in a particular aspect of production engineering and be designated accordingly, e.g.

Methods Engineer      Quality Control Engineer  
Safety Engineer

May specialise in a particular branch of manufacturing industry and be designated accordingly, e.g.

Automotive Production Engineer

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T2m
HC: IRC	RQ: U2 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I2 A1 P1 D2 R2 M2 L1	
PA: P2 S2 W2 E2	SA: S2 L2 M2 R4
<b>Context</b>	
EC: L1 C09	TC: A1 I2 T2
SS: 7	SC: I1 (12y)
LMS: 446 (3 %SE)	ASIC: Many

### 2043-Z MECHANICAL ENGINEERS nec

This residual group covers mechanical engineers not elsewhere classified in Unit Group 2043.

## 2044 MATERIALS AND METALLURGICAL ENGINEERS

This unit group covers occupations concerned with determining and evaluating technical and economic factors relating to the development, production and use of materials in engineering applications.

**Entry Requirements** a degree in metallurgy, materials engineering or related subjects; occupations involving research may require a higher degree.

**Activities include** studying the structure of metallic and non-metallic materials, determining their properties, and developing new materials with desired characteristics; investigating methods of shaping and fabrication; selection of materials and evaluation of service performance; supervision of technical aspects of production and utilisation of materials; advising on manufacture, use, properties, conservation and recycling of materials; collaborating with engineers from other disciplines, scientists, economists and others in planning and implementing projects involving the use of materials.

**2044-A MATERIALS ENGINEER**

Applies engineering principles to the study and application of metallic, ceramic and polymeric materials on a commercial scale, performing any combination of the following duties.

Studies the relationships between the structure and properties of materials such as metals, ceramics, plastics, composite materials and rubbers, in relation to their technological application. Conducts research into, for example, the structure of materials, using techniques such as electron microscopy and X-ray diffraction. Studies design techniques for the utilisation of materials and develops methods of moulding, casting, shaping and joining. Determines criteria for selection of materials, establishes procedures and methods for protection against deterioration and for evaluation of service performance of materials. Prepares and evaluates specifications, tenders, estimates and contracts, and evaluates, interprets and writes reports. Consults and collaborates with other engineers and with physicists and chemists. Supervises and co-ordinates the work of engineers, physicists and chemists and of technical officers, technicians and tradespersons and other workers.

May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May specialise in an aspect of materials engineering or in a particular product or process and be designated accordingly, e.g.

Ceramics Engineer

Polymer Engineer

**Job Content Factors****Workers**

FP: GE12y PSP4-5y(D) / (PG)

IP: T2m

HC: IRC

RQ: U1 D1 V2

**Materials**

SM: D1 I2 P2 T2

EQ: P1 K2

**Functions**

MA: I2 A1 P1 D2 R2 M2 L1

PA: P1 S2 W2 E2

SA: L2 I2 P1 M2 R4

**Context**

EC: L1

TC: A1 I2 T2

SS: 7

SC: I0 (12y)

LMS: 2000-3000(1 %SE)

ASIC: Many

**2044-B METALLURGICAL ENGINEER  
Extractive Metallurgist**

Originates, controls and develops smelting, electrolytic,

flotation and other processes used in extracting metals from their ores, for producing iron and steel, or for refining gold, silver, zinc, copper, nickel and other metals.

Studies ore treatment problems in pyrometallurgy and hydrometallurgy to determine the most efficient method of producing metals and alloys in commercial quantities. Co-ordinates recovery of samples from various stages of processing for laboratory analysis and testing. Advises operations personnel on process changes required to obtain desired product and process, and on quality control. Specifies temperature adjustments, charge mixtures and other variables in operation to obtain pig iron, steel or other metals of specified quality. Investigates methods of improving metallurgical processes such as selective oxidation, reduction, electrolysis and distillation to extract lead, copper, zinc, nickel and other non-ferrous metals from their ores. Prepares cost budgets of operations to evaluate economic feasibility of processes. Supervises and co-ordinates the work of technical officers, technicians and others.

May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May specialise in ferrous or non-ferrous metals or in a particular metal. May be concerned with a particular aspect of metallurgical engineering and be designated accordingly, e.g.

Hydrometallurgical Engineer

Ore Dressing Engineer

Pyrometallurgical Engineer

**Job Content Factors****Workers**

FP: GE12y PSP4-5y(D) / (PG)

IP: T2m

HC: IRC

RQ: U1 D2 V2

**Materials**

SM: D1 I2 P2 T2

EQ: P2 K2

**Functions**

MA: I2 A1 P1 D2 R2 M2 L1

PA: P2 S2 W2 E2

SA: S2 L2 P2 M2 R4

**Context**

EC: L1 C01,02

TC: A1 I2 T2

SS: 7

SC: I0 (12y)

LMS: 600-800 (1 %SE)

ASIC: Many

**2045 ENGINEERS (OTHER)**

This unit group covers occupations concerned with research, design, construction, manufacture, operation and maintenance of machines, processes or services depending on principles of engineering in branches not elsewhere classified in Minor Group 204.

**Entry Requirements** a degree in a relevant branch of engineering; occupations involving research may require a higher degree.

**Activities include** engineering work related to the development and use of agricultural land, buildings, machinery and equipment; research, design, manufacturing and maintenance work related to aircraft; design, construction and repair of marine vessels and other floating structures; and planning the engineering aspects of extracting minerals from the earth.

**Related Occupations**

Occupation 7019-A : Marine Engineer Officer

Occupation 2420-A : Biomedical Engineer

**2045-A AERONAUTICAL ENGINEER**

Performs and supervises engineering work concerned with the design, development, manufacture, maintenance and modification of aircraft for flight in the earth's atmosphere, and carries out research in this area, performing any combination of the following duties.

Undertakes design of aircraft, components and support equipment, performing duties as described under Master Title **DESIGN ENGINEER**. Examines controls, structural integrity, stability and other characteristics, in laboratory or flight conditions. Analyses and solves problems arising from these experiments to ensure that aircraft are capable of meeting operational environmental conditions. Studies airframes under stress conditions to determine solutions to problems such as those resulting from metal fatigue and flutter. Supervises preparation of working drawings and specifications. Supervises the assembly of airframe and installation of engines, instruments and other equipment. Evaluates test flights to ensure vehicle conforms to specifications and safety standards. Recommends or authorises modifications, repairs or maintenance. Compiles, evaluates, interprets data and writes reports. Prepares and evaluates specifications, tenders, estimates and contracts. Consults and collaborates with other engineers and with flight personnel. Supervises and co-ordinates the work of engineers, technical officers, technicians, tradespersons and other workers.

May perform duties as described under Master Title **CONSULTANT** and advise clients for a fee. May conduct research into aeronautical engineering, performing duties as described under Master Title **RESEARCH ENGINEER**. May specialise in a phase of aeronautical engineering and be designated accordingly, e.g.

Aircraft Maintenance Engineer  
Airframe Engineer  
Air Safety Engineer  
Airworthiness Engineer

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T2m
HC: IRC	RQ: U1 V2 A2
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I2 A1 P1 D2 R2 M1 L1	
PA: P2 S2 W2 E2	SA: S2 L1 P2 M2 R4
<b>Context</b>	
EC: L1	TC: A1 I2
SS: 7	SC: I0 (12y)
LMS: 500-550 (0 %SE)	ASIC: Many

**2045-B AGRICULTURAL ENGINEER**

Performs and supervises engineering work related to the use and development of agricultural land, buildings, machinery and equipment, and carries out research in this area, performing any combination of the following duties.

In design, performs duties as described under Master Title **DESIGN ENGINEER**, or, in manufacture, those described under Master Title **PRODUCTION ENGINEER**. Plans and supervises the construction of irrigation, drainage, flood and water control systems. Designs, develops, and supervises the manufacture of agricultural machinery and equipment such as pumps and irrigation equipment, harvesting machines, cultivators and other farm implements. Determines layouts and supervises construction of farm buildings, crop processing plant, and processing equipment and systems for animals and animal products. Prepares and evaluates specifications, tenders, estimates and contracts. Evaluates and interprets data and writes reports. Consults and collaborates with other engineers and agricultural scientists. Supervises and co-ordinates the work of engineers and of technical officers, technicians and other workers.

May perform duties as described under Master Title **CONSULTANT** and advise clients for a fee. May carry out research into agricultural engineering problems, performing duties as described under Master Title **RESEARCH ENGINEER**.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T2m
HC: IRC	RQ: U1 V2
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I2 A1 P1 D2 R2 M2 L1	
PA: P2 S2 W2 E2	SA: S2 L2 P2 M2 R4
<b>Context</b>	
EC: T2 L4	TC: A1 I2
SS: 7	SC: I0 (12y)
LMS: 500-550 (2 %SE)	ASIC: Many

**2045-C NAVAL ARCHITECT**

Performs and supervises engineering work concerned with the design, construction and repair of marine vessels and floating structures, performing any combination of the following duties.

In design, performs duties as described under Master Title **DESIGN ENGINEER**. Consults with owners, shipping organisations and oceanographic research institutes to prepare preliminary ship designs and capital and lifetime cost estimates. Carries out studies such as hydrostatic, hydrodynamic, strength and vibration calculations to determine optimum vessel weight and to ensure that proposed design meets desired performance and cost requirements, and establishes operational constraints and alternatives. Directs preparation of detailed ship design, and of drawings, specifications and building contracts, co-ordinating the input of other engineers such as engine designers and control systems engineers. Obtains approval of plans by governmental or other regulatory agencies. Exercises overall supervision of ship during construction, either as the owners' representative or shipbuilders' superintendent. Devises, supervises and evaluates trials. Determines and supervises repairs and modifications. Compiles, evaluates, interprets data and writes reports. Supervises and co-ordinates the work of other engineers, technical officers, technicians, and trades and other workers.

May perform duties as described under Master Title **CONSULTANT** and advise clients for a fee.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T2m
HC: IRC	RQ: U1 V2
<b>Materials</b>	
SM: D2 I1 P1 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1	
PA: P2 S2 W2 E1	SA: S2 L1 P2 M2 B2 R4
<b>Context</b>	
EC: M2 L1	TC: A1
SS: 7	SC: I0 (12y)
LMS: 10-20 (5 %SE)	ASIC: Many

**2045-D MINING ENGINEER**

Plans and directs the engineering aspects of extracting minerals of all kinds from the earth, performing any combination of the following duties.

Conducts preliminary surveys of mineral deposits, in collaboration with geologists or prospectors, to ascertain whether ore can be extracted economically. Determines most suitable method or combination of methods of extraction by considering such factors as depth of overburden, character of deposit and surrounding strata. Prepares plans for location and construction of mine shafts, tunnels and chambers, and

determines the appropriate use of drilling and blasting techniques. Selects most efficient and economical underground materials handling equipment to transport minerals to the surface. Plans and co-ordinates utilisation of manpower and equipment consistent with efficiency, safety and environmental conditions. Prepares operation and project estimates and controls expenditures when mine comes into production. Prepares and evaluates specifications, tenders, estimates and contracts. Establishes and supervises mine rescue and recovery facilities and ensures that appropriate personnel are trained and located at the mine. Consults and collaborates with geologists and with engineers from other disciplines to design, select or provide machines, facilities and systems for mining, ancillaries such as access roads, water and power supplies, drainage, ventilation, mine railways, conveyors and haulages, and protection or restoration of the environment. Supervises and co-ordinates the work of engineers, technical officers, technicians, tradespersons and other workers.

May perform duties as described under Master Title CONSULTANT. May specialise in a phase of mining engineering and be designated accordingly, e.g.

Environmental Engineer      Mine Planning Engineer

### Mine Production Engineer

#### Job Content Factors

##### Workers

FP: GE12y PSP4-5y(D) / (PG)

IP: T2m

HC: IRC

RQ: U1 D2 V2

##### Materials

SM: D1 I2 P2 T2

EQ: P2 K2

##### Functions

MA: I2 A1 P1 D2 R2 M2 L1

PA: P2 S2 W2 E2

SA: L1 P2 M2 R4

##### Context

EC: T1 M2 L4 C01,02,06

SS: 7

TC: A1 I2

SC: I0 (12y)

LMS: 800-850 (2 %SE)

ASIC: Many

### 2045-Z

### ENGINEERS (OTHER) nec

This residual group covers engineers not elsewhere classified in Minor Group 204, e.g.

Cadet Engineer

Petroleum Engineer

Drilling Fluids Engineer; Mud Engineer

## 2046 ENGINEERING DRAFTING AND OTHER TECHNICAL OFFICERS

This unit group covers design drafting and other technical occupations in various fields of engineering.

**Entry Requirements** a para-professional certificate, associate diploma or other equivalent qualification in engineering and up to 2 years' experience.

**Activities include** preparing engineering design drawings for such purposes as manufacture and installation of machines and equipment, or construction of structures, roads and other projects, or the preparation of technical assembly, installation, operation and maintenance manuals; carrying out technical functions in support of engineering research, design, manufacture, construction and maintenance; testing of constructions, installations and manufacturing processes; diagnosing malfunctions and taking corrective action; compiling and assisting in the evaluation and interpretation of technical data; and preparing material lists and cost estimates.

### 2046-A

### TECHNICAL OFFICER, CIVIL ENGINEERING

Carries out complex technical functions in support of civil engineering research, design, construction, operation and maintenance, performing any combination of the following duties.

Performs duties as described under Master Title TECHNICAL OFFICER. Conducts material testing in research and development laboratories for civil engineering works such as structural frames, hydraulic systems, roads, aerodromes, water supply, sewerage and drainage systems, bridges, dams and harbours. Carries out field and laboratory tests on soils, aggregates and concrete. Undertakes traffic surveys, analyses results and prepares statistical tables and drawings. Assists engineers in investigation and design functions. Prepares schedules and specifications, and estimates of quantities and costs. Examines construction work for conformity with plans and specifications. Inspects civil engineering structures and facilities, and organises and supervises maintenance and repair works. Supervises and co-ordinates the work of technicians, tradespersons and other workers.

May specialise as to function or field, and be designated accordingly, e.g.

Soils Testing Officer

Technical Officer, Civil Construction

#### Job Content Factors

##### Workers

FP: GE11-12y PSP2-3y(Adip) / (PPC)

IP: E0-2y

HC: IRC

RQ: U2 D2 V1

##### Materials

SM: D1 P2 T2

EQ: P1 K2

##### Functions

MA: A1 P2 D2 R3 M2 L2

PA: P1 S2 W2 E2

SA: S2 L2 B2 R4

##### Context

EC: M1 L4

SS: 7

TC: A1

SC: I0 (15y)

LMS: 3500-4500(0 %SE)

ASIC: Many

### 2046-B

### TECHNICAL OFFICER, ELECTRICAL ENGINEERING

Carries out complex technical functions in support of research, design, manufacture, construction, operation and maintenance in respect of electrical components, equipment, facilities, installations and distribution systems, performing

any combination of the following duties.

Performs duties as described under Master Title **TECHNICAL OFFICER**. Assists engineers in complex non-routine tests and commissioning of major plants, in the design of circuitry and in the layout and arrangement of power stations, switchyards, substations, switchgear and cabling systems. Examines electrical installations and manufacturing processes for conformity with specifications, drawings, contracts and regulations. Supervises the operation of generation, transmission and distribution systems, and organises and supervises maintenance activities. Prepares estimates of costs and quantities. Assembles data in prescribed forms, makes complex computations, and prepares charts, graphs and reports. Supervises and co-ordinates the work of technicians, tradespersons and other workers.

May specialise as to function or field and be designated accordingly, e.g.

Electrical Distribution Officer  
Technical Officer, Lighting

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
HC: IRC	RQ: U2 D2 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E1	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1 C10	TC: A1 I2
SS: 7	SC: I0 (15y)
LMS: 2250-3000(0 %SE)	
ASIC: Many	

**2046-C TECHNICAL OFFICER, ELECTRONICS ENGINEERING**

Carries out complex technical functions in support of research, design, manufacture, installation and maintenance in respect of electronic equipment, facilities and systems, performing any combination of the following duties.

Performs duties as described under Master Title **TECHNICAL OFFICER**. Develops circuits for electronic devices and constructs prototypes; tests and evaluates performance and prepares graphs, diagrams and reports. Designs circuit layout for new or modified electronic equipment. Evaluates performance and reliability of prototype or production models of electronic products and equipment, and makes recommendations on modifications. Selects, commissions and maintains electronic instrumentation and apparatus for experimental use and for the control of industrial plants and processes. Diagnoses faults in electronic equipment and systems, and takes corrective action. Supervises and co-ordinates the work of technicians, tradespersons and other workers.

May operate and maintain complex (tele)communications equipment, including computer controlled equipment. May specialise as to function or field and be designated accordingly, e.g.

Radio Maintenance Officer  
Technical Officer, Aircraft Electronics  
Technical Officer, Communications Engineering; Technical Officer, Telecommunication Engineering

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
HC: IRC	RQ: U2 V1 A2
<b>Materials</b>	
SM: D1 P2 T2	EQ: P1 S1 K2
<b>Functions</b>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4

**Context**

EC: L1 C10	TC: A1 I2
SS: 7	SC: I0 (15y)

LMS: 2500-3000(0 %SE)

ASIC: Many

**2046-D TECHNICAL OFFICER, MECHANICAL ENGINEERING**

Carries out complex technical functions in support of research, design, manufacture, construction, operation, production and maintenance in respect of machines, manufacturing equipment, and mechanical installations and facilities, performing any combination of the following duties.

Performs duties as described under Master Title **TECHNICAL OFFICER**. Analyses engineering sketches, specifications and drawings. Examines feasibility of using one or more machines to carry out sequential operations. Selects tools, fixtures and equipment to be used in fabrication and assembly of machines, mechanical components and other products. Analyses specifications and drawings to determine quantities of raw materials, sub-assemblies and assemblies needed to meet construction or production schedules. Examines output of product, considering such factors as time, cost and quality standards. Organises and supervises the operation and maintenance of machines and mechanical facilities. Supervises and co-ordinates the work of technicians, tradespersons and other workers.

May specialise as to function or field and be designated accordingly, e.g.

Technical Officer, Gas Leakage Survey  
Technical Officer, Heating and Ventilating  
Technical Officer, Production Control  
Time Study Officer

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
HC: IRC	RQ: U2 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1 C09	TC: A1 I2 T2
SS: 7	SC: I0 (15y)
LMS: 3000-4000(0 %SE)	
ASIC: Many	

**2046-E TECHNICAL OFFICER, PROCESS CONTROL**

Carries out complex technical functions in support of research, design, manufacture, installation and maintenance, in respect of process and industrial control and instrumentation systems, carrying out any combination of the following activities.

Performs duties as described under Master Title **TECHNICAL OFFICER**. Assists engineers in the design and specification of process control and instrumentation systems using electronic, digital, electrical and pneumatic sensors, signal systems, instruments, controllers, recorders and indicators. Develops specifications for non-standard instrumentation and equipment. Assists engineers in the commissioning of large, non-routine process control systems. Undertakes more difficult and complex calibrations, tests and adjustments. Inspects process control and instrumentation installations for conformity with specifications, drawings, contracts and regulations. Organises and supervises maintenance activities, and diagnoses and directs rectification of system malfunctions. Assembles data, makes complex computations and prepares charts, graphs and reports. Supervises and co-ordinates the work of technicians, tradespersons and other workers.

May be concerned with a particular aspect of process control and instrumentation and be designated accordingly, e.g.

Technical Officer, Digital Controls

Technical Officer, Process Control Maintenance

#### Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
HC: IRC	RQ: U2 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ: P2 S1 K2
<i>Functions</i>	
MA: A1 P2 D2 R3 M2 L2	
PA: P2 S2 W2 E2	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 7	SC: I0 (15y)
LMS: 3000-4000(0 %SE)	ASIC: Many

#### 2046-F

#### DRAFTSMAN/WOMAN, CIVIL ENGINEERING Draftsman/woman, Civil Design

Prepares design drawings for the construction of structural, transportation, water supply, sewerage, drainage and other civil engineering projects, by performing any combination of the following duties.

Studies preliminary sketches, makes calculations and analyses data prior to producing preliminary drawings, and makes any necessary changes in consultation with design engineers. Prepares working drawing, layout and arrangement drawings showing structural, mechanical and electrical features. Refers to and interprets codes of practice, performs design computations, and considers manufacturing, assembly, construction and cost problems, in consultation with design engineers. Prepares material lists and cost estimates. Visits field locations or workshops to obtain measurements and examine site conditions. Prepares design drawings for works such as structural frames, hydraulic systems, roads, aerodromes, water supply, sewerage and drainage systems, bridges, dams and harbours. Develops plans for roads, culverts and bridges from data received from field surveys. Prepares drawings showing profiles, cross-sections, and topographical features, structures and underground services for civil engineering projects.

May be concerned with a particular aspect of civil engineering design drafting and be designated accordingly, e.g.

Draftsman/woman, Road Design

Draftsman/woman, Sewage Reticulation

Draftsman/woman, Steel Detail

Draftsman/woman, Tunnels

#### Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
HC: IRC	RQ: U2 D2 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<i>Context</i>	
EC: M1 L4	TC: A1
SS: 7	SC: I0 (15y)
LMS: 3500-4500(0 %SE)	ASIC: Many

#### 2046-G

#### DRAFTSMAN/WOMAN, STRUCTURAL ENGINEERING Draftsman/woman, Structural Design

Prepares design drawings for the construction of steel and concrete structures, by performing any combination of the following duties.

Performs general duties described under 2046-F DRAFTSMAN/WOMAN, CIVIL ENGINEERING. Prepares structural engineering design drawings for structures

in steel or concrete, such as frames for buildings, bridges, plate girders, roof trusses, retaining walls, chimneys, hydraulic structures and wharves. Prepares reinforcing steel schedules for reinforced concrete work listing all individual bar shapes with sizes and dimensions for the bar bending works.

#### Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
HC: IRC	RQ: U2 D2 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<i>Context</i>	
EC: M1 L4	TC: A1
SS: 7	SC: I0 (15y)
LMS: 3500-4500(0 %SE)	ASIC: Many

#### 2046-H

#### DRAFTSMAN/WOMAN, ELECTRICAL ENGINEERING Draftsman/woman, Electrical Design

Prepares design drawings and circuit diagrams for the manufacture, assembly and maintenance of electrical facilities, installations and distribution systems, by performing any combination of the following duties.

Performs general duties described under 2046-F DRAFTSMAN/WOMAN, CIVIL ENGINEERING. Prepares electrical engineering design drawings and circuit diagrams for the manufacture, assembly and maintenance of electrical machines, equipment and components, and layout and arrangement drawings for electrical facilities, installations and distribution systems. Assists engineers in determining the layout and arrangement of power stations, switchyards, substations, switchgear and cabling systems, and prepares the resulting finished drawings. Assists engineers in the design of circuitry for switchgear and motor control systems, and standard circuit diagrams, and prepares more complex block and schematic diagrams as finished drawings.

May be concerned with preparation of electrical drawings and diagrams for vehicles, industrial machinery, domestic appliances and other manufactured equipment, and be designated accordingly, e.g.

Draftsman/woman, Lighting Design

Draftsman/woman, Motor Control

Draftsman/woman, Relays

Draftsman/woman, Substation Design

#### Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
HC: IRC	RQ: U2 D2 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E1	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1 C10	TC: A1 I2
SS: 7	SC: I0 (15y)
LMS: 2250-3000(0 %SE)	ASIC: Many

#### 2046-I

#### DRAFTSMAN/WOMAN, ELECTRONICS ENGINEERING Draftsman/woman, Electronics Design

Prepares electronic circuit diagrams and arrangement drawings for the manufacture, assembly, installation and maintenance of electronic equipment and facilities, by performing any combination of the following duties.

Performs general duties described under 2046-F DRAFTSMAN/WOMAN, CIVIL ENGINEERING. Prepares electronic design drawings for the manufacture, assembly, installation and maintenance of radio, television.

telemetry, communications and control equipment, facilities and instrumentation. Prepares sketches of details, such as circuit boards, and prepares more complex finished drawings of arrangement and circuits. Assists engineers in the design of electronic and communications systems and the arrangement of equipment and cabling, and prepares resulting finished drawings.

May be concerned with a particular aspect of electronic drafting and be designated accordingly, e.g.

Draftsman/woman, Communications and Data Systems  
 Draftsman/woman, Control Systems  
 Draftsman/woman, Equipment Design

#### Job Content Factors

<b>Workers</b>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
HC: IRC	RQ: U2 V1 A2
<b>Materials</b>	
SM: D1 P2 T2	EQ: P1 S1 K2
<b>Functions</b>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1 C10	TC: A1 I2
SS: 7	SC: 10 (15y)
LMS: 2500-3000(0 %SE)	ASIC: Many

#### 2046-J DRAFTSMAN/WOMAN, MECHANICAL ENGINEERING

Draftsman/woman, Mechanical Design

Prepares design drawings of machines, manufacturing equipment and mechanical installations and facilities, by performing any combination of the following duties.

Performs general duties described under 2046-F DRAFTSMAN/WOMAN, CIVIL ENGINEERING. Prepares mechanical engineering design drawings of

assemblies and more complex details of machines, tooling set-ups, materials handling systems, piping systems, pumping installations, heating, air-conditioning installations and workshop layouts etc. including dimensions, manufacturing assembly and installation data.

May be concerned with a particular aspect of mechanical design drafting and be designated accordingly, e.g.

Draftsman/woman, Air-Conditioning  
 Draftsman/woman, Heating and Ventilating  
 Draftsman/woman, Jig and Tool Design  
 Draftsman/woman, Sewage Pumping

#### Job Content Factors

<b>Workers</b>	
FP: GE11-12y PSP2-3y(Adip) / (PPC)	IP: E0-2y
HC: IRC	RQ: U2 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1 C09	TC: A1 I2 T2
SS: 7	SC: 10 (15y)
LMS: 3000-4000(0 %SE)	ASIC: Many

#### 2046-Z ENGINEERING DRAFTING AND OTHER TECHNICAL OFFICERS nec

This residual group covers engineering drafting and other technical officers not elsewhere classified in Unit Group 2046 e.g.

Draftsman/woman, Chemical Plant Design  
 Draftsman/woman, Shipbuilding Design  
 Technical Officer, Airframe  
 Technical Officer, Coal Mining  
 Technical Officer, Welding

### 2047 ENGINEERING TECHNICIANS AND DRAFTING ASSISTANTS

This unit group covers technician and drafting assistant occupations in various fields of engineering.

**Entry Requirements** a para-professional certificate or equivalent, or a trade qualification with additional formal technician level training, or Year 10-12 with appropriate subjects and, in some cases, further appropriate training.

**Activities include** preparing detail drawings of specific parts of machines, structures, circuits, products or installations from general assembly, layout and circuit drawings, sketches, prototype models and other data; making simple calculations for the preparation of detailed parts drawings or for other purposes, using prepared forms and non-complicated formulae; carrying out inspections to determine conformity with drawings, specifications and regulations; constructing, installing, calibrating, maintaining and modifying equipment or systems according to standard procedures or instructions; performing skilled tasks requiring greater knowledge or skill than that of trades workers.

#### 2047-A ENGINEERING TECHNICIAN, CIVIL

Carries out limited technical functions in support of civil engineering research, design, construction, operation and maintenance, performing any combination of the following duties.

Performs duties as described under Master Title TECHNICIAN. Assists civil engineers and civil engineering technical officers in functions concerned with the conduct of field and laboratory tests of construction materials and soils,

and the collection of data for traffic surveys. Prepares computations, sketches, charts and tabulations for civil engineering works such as drainage, water supply and sewage reticulation systems, roads, airports, dams, harbours, and bridges and other structures.

May supervise tradespersons and other workers. May specialise as to function or field and be designated accordingly, e.g.

Materials Testing Technician  
 Technical Assistant, Hydrographics

## Traffic Technician

*Job Content Factors*

<i>Workers</i>	
FP: GE10-11y PSP2-5y(PPC) / (T)	IP: T2m
or FP: GE10-12y	IP: T3-4y
HC: IR	RQ: U2 D2 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ: P1
<i>Functions</i>	
MA: A2 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<i>Context</i>	
EC: T2 M1 L4	TC: A1 I2
SS: 7	SC: 8 (8 y)
LMS: 3500-4500(0 %SE)	ASIC: Many

**2047-B ENGINEERING TECHNICIAN, ELECTRICAL**

Carries out limited technical or skilled functions in support of electrical engineering research, design, manufacture, construction, operation and maintenance, performing any combination of the following duties.

Performs duties as described under Master Title TECHNICIAN. Assists electrical engineers and electrical engineering technical officers in field, workshop and office activities. Performs tests using standard instruments and methods. Prepares tabulations, charts and graphs of test results and operating conditions. Undertakes more complex electrical workshop functions such as assemblies for protection relays, metering and indicating devices. Assembles, installs, tests and calibrates electrical installations for conformity with regulations and safety requirements.

May supervise tradespersons and other workers. May specialise as to function or field and be designated accordingly, e.g.

Electrical Instrument Technician  
Lighting Technician

*Job Content Factors*

<i>Workers</i>	
FP: GE10-11y PSP2-5y(PPC) / (T)	IP: T2m
or FP: GE10-12y	IP: T3-4y
HC: IRC	RQ: U2 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ: P1 M2 K2
<i>Functions</i>	
MA: A2 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1 C10	TC: A1 I2
SS: 7	SC: 8 (8 y)
LMS: 2250-3000(0 %SE)	ASIC: Many

**2047-C ENGINEERING TECHNICIAN, ELECTRONICS**

Carries out limited technical or skilled functions in support of electronic research, design, manufacture, operation and maintenance, performing any combination of the following duties.

Performs duties as described under Master Title TECHNICIAN. Assembles circuitry for electronic equipment in accordance with technical manuals and engineers' instructions. Tests various types of electronic instruments and equipment, repairing or replacing defective components. Calibrates electronic measuring and indicating instruments to established standards. Installs, tests, repairs and modifies electronic equipment, following technical manuals or engineers' instructions.

May supervise tradespersons and other workers. May specialise as to function or field and be designated accordingly, e.g.

Engineering Technician, Communications  
Process Control Technician

Radio Technician  
Telemetry Technician*Job Content Factors*

<i>Workers</i>	
FP: GE10-11y PSP2-5y(PPC) / (T)	IP: T2m
or FP: GE10-12y	IP: T3-4y
HC: RIC	RQ: V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 K2
<i>Functions</i>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1 C10	TC: A1 I2
SS: 7	SC: 8 (8 y)
LMS: 2250-3000(0 %SE)	ASIC: Many

**2047-D ENGINEERING TECHNICIAN, MECHANICAL**

Carries out limited technical or skilled functions in support of mechanical engineering research, design, manufacture, construction, operation and maintenance, performing any combination of the following duties.

Performs duties as described under Master Title TECHNICIAN. Performs workshop and field tests using standard instruments and methods. Undertakes more complex mechanical workshop functions such as assembly or installation of new or modified mechanical assemblies or components for manufacturing processes, machine tools, hydraulic power systems, machine controls and tooling. Studies materials handling methods and suggests changes that will reduce handling costs. Assists in developing quality control tests for products and components.

May supervise tradespersons and other workers. May specialise as to function or field and be designated accordingly, e.g.

Hydraulic Controls Technician  
Materials Handling Technician  
Production Planning Officer

*Job Content Factors*

<i>Workers</i>	
FP: GE10-11y PSP2-5y(PPC) / (T)	IP: T2m
or FP: GE10-12y	IP: T3-4y
HC: IRC	RQ: U2 D1 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: I2 A2 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1 C09	TC: A1 I2
SS: 7	SC: 8 (8 y)
LMS: 3000-4000(0 %SE)	ASIC: Many

**2047-E DRAFTING ASSISTANT, CIVIL ENGINEERING  
Draftsman/woman, Civil Engineering Detail**

Prepares detail drawings for parts of civil engineering structures or projects, such as workshop details for steel structures, reinforcing for schedules for concrete structures, and less complex drawings, charts and graphs associated with civil engineering design.

Studies general assembly, layout and circuit drawings, sketches, prototype models and other data, and makes simple calculations for the preparation of detail parts drawings, showing dimensions, materials and related data. Confers with engineering drafting officers on the interpretation of requirements and on matters concerning codes of practice, production and assembly problems.

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y PSP2-5y(PPC) / (T)	IP: T2m
or FP: GE10-12y	IP: T3-4y
HC: IR	RQ: U2 D2 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: P1
<b>Functions</b>	
MA: A2 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<b>Context</b>	
EC: T2 M1 L4	TC: A1 I2
SS: 7	SC: 8 (8 y)
LMS: 3500-4500(0 %SE)	ASIC: Many

**2047-F DRAFTING ASSISTANT, ELECTRICAL ENGINEERING**  
**Draftsman/woman, Electrical Engineering Detail**

Prepares detail drawings for electrical components for manufacture, or of parts of electrical installations, or of circuit diagrams from sketches made by engineers or engineering drafting officers, and less complex drawings, charts and graphs associated with electrical engineering design.

Performs general duties described under 2047-E DRAFTING ASSISTANT, CIVIL ENGINEERING.

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y PSP2-5y(PPC) / (T)	IP: T2m
or FP: GE10-12y	IP: T3-4y
HC: IRC	RQ: U2 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: P1 M2 K2
<b>Functions</b>	
MA: A2 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1 C10	TC: A1 I2
SS: 7	SC: 8 (8 y)
LMS: 2250-3000(0 %SE)	ASIC: Many

**2047-G DRAFTING ASSISTANT, ELECTRONICS ENGINEERING**  
**Draftsman/woman, Electronics Detail**

Prepares detail drawings for electronic components and circuits for manufacture, or of parts of electronics installations, from sketches made by engineers and engineering drafting officers, and less complex drawings, charts and graphs associated with electronics design and manufacture.

Performs general duties described under 2047-E DRAFTING ASSISTANT, CIVIL ENGINEERING.

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y PSP2-5y(PPC) / (T)	IP: T2m
or FP: GE10-12y	IP: T3-4y
HC: RIC	RQ: V1 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: P1 K2
<b>Functions</b>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1 C10	TC: A1 I2
SS: 7	SC: 8 (8 y)
LMS: 2250-3000(0 %SE)	ASIC: Many

**2047-H DRAFTING ASSISTANT, MECHANICAL ENGINEERING**  
**Draftsman/woman, Mechanical Detail**

Prepares detail drawings of mechanical parts, tools and minor assemblies, showing dimensions and materials to be used, and less complex drawings, charts and graphs associated with mechanical engineering design and manufacture.

Performs general duties described under 2047-E DRAFTING ASSISTANT, CIVIL ENGINEERING.

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y PSP2-5y(PPC) / (T)	IP: T2m
or FP: GE10-12y	IP: T3-4y
HC: IRC	RQ: U2 D1 V1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I2 A2 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1 C09	TC: A1 I2
SS: 7	SC: 8 (8 y)
LMS: 3000-4000(0 %SE)	ASIC: Many

**2047-Z ENGINEERING TECHNICIANS AND DRAFTING ASSISTANTS nec**

This residual group covers engineering technicians and drafting assistants not elsewhere classified in Unit Group 2047, e.g.

Draftsman/woman, Aircraft Detail  
 Draftsman/woman, Mining Detail  
 Metallurgical Technician  
 Welding Technician

## 2049 OTHER ENGINEERING OCCUPATIONS

This residual unit group covers occupations concerned with engineering functions not elsewhere classified in Minor Group 204.

**Activities include** producing finished engineering drawings from original rough drawings prepared by engineers or other personnel; and performing simple duties while undergoing part-time education.

2049-A ENGINEERING TRACER

Produces finished engineering drawings from original rough drawings prepared by engineers, draftsmen/women or detail draftsmen/women.

Traces on transparent paper or film placed over the original using drafting instruments to produce drawings, graphs, charts and diagrams associated with an engineering design office. Colours engineering drawings to identify specific features or areas.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP2y(B)	IP: T2m
or FP: GE10y	IP: T1-2y
HC: RAC	RQ: Q1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P1 S1 E1	SA: S2 L2
<i>Context</i>	
EC: L1	TC: A1
SS: 3	SC: 9 (15y)
LMS: 11000 (0 %SE)	ASIC: Many

2049-B ENGINEERING TRAINEE

Performs the more simple duties defined in Unit Groups 2040, 2041, 2042, 2043, 2044 or 2045 while undergoing part-time professional education to achieve an engineering qualification.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y	IP:
HC: IRC	RQ: U1 V2 A2
<i>Materials</i>	
SM: D1 P2 T2	EQ: P2 M2 K2
<i>Functions</i>	
MA: P2 D3 R2 M2 L2	
PA: U2 S2 W2 E3	SA: S2 L2
<i>Context</i>	
EC: M2 L4 C09,10,12	TC: A1 I2
SS: 1	SC: 6 (6 y)
LMS: 22500 (0 %SE)	ASIC: Many

2049-C ENGINEERING TECHNICAL OFFICER TRAINEE

Performs the more simple duties as described under Master Title TECHNICAL OFFICER while undergoing related part-time education.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE11-12y	IP:
HC: RIC	RQ: U1 D2 V1 A2
<i>Materials</i>	
SM: D1 P2 T2	EQ: S1 K1
<i>Functions</i>	
MA: I2 A2 D2 R3 M1 L3	
PA: S1 E2	SA: S2 L2
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 1	SC: 6 ( 6y)
LMS: 17500 (0 %SE)	ASIC: Many

2049-D ENGINEERING TECHNICIAN TRAINEE  
Trainee Engineering Detail Draftsman/  
woman; Trainee Technical Assistant,  
Engineering

Performs the more simple duties described under Master Title TECHNICIAN while undergoing related part-time education.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-12y	IP:
HC: RIC	RQ: U1 D2 V1 A2
<i>Materials</i>	
SM: D1 P2 T2	EQ: P2 M2 K2
<i>Functions</i>	
MA: P2 D3 R3 M3 L3	
PA: P2 U2 S2 W2 E3	SA: S2 L2
<i>Context</i>	
EC: M2 L4 C09,10,12	TC: A1 I2
SS: 1	SC: 8 (6 y)
LMS: 17500 (0 %SE)	ASIC: Many

2049-Z ENGINEERING OCCUPATIONS nec

This residual group covers occupations in engineering not elsewhere classified in Minor Group 204.

## MINOR GROUP 205 ARCHITECTURE, BUILDING AND SURVEYING OCCUPATIONS

Architecture, Building and Surveying Occupations are classified in the following unit groups.

- 2050 Architecture Occupations
- 2051 Building Occupations (Professional)
- 2052 Cartographers and Surveyors
- 2053 Architecture, Building and Surveying Drafting and Other Technical Officers
- 2059 Other Architecture, Building and Surveying Occupations

### *Related Occupations*

- Occupation 2102-A : Urban and Regional Planner
- Major Group 68 : Construction Occupations

### 2050 ARCHITECTURE OCCUPATIONS

This unit group covers occupations concerned with the design and supervision of construction, maintenance and refurbishment of buildings and related structures and with the aesthetic landscaping of parks, road developments and other projects.

**Entry Requirements** a degree in architecture, landscape architecture or landscape design.

**Activities include** consulting with clients and others to determine type and scope of project; providing information on design styles, materials, costs and completion times; preparing sketches, designing drawings, specifications and contract documents; supervising project construction work; inspecting and verifying for payment the work of contractors and subcontractors; advising on problems related to building construction and maintenance, site location and environmental impacts.

#### 2050-A ARCHITECT

Designs buildings or sections of buildings, providing concept, plans, specifications and detailed drawings, and usually arranges and administers the associated construction contracts as agent for the owner.

Consults with client or management to determine type, style and size of building or alteration. Provides information regarding design, materials, costs and estimated building time. Plans layout, including location of equipment. Prepares sketches and documents for the proposed project for consideration and decision. Prepares or supervises the preparation of scale drawings, integrating structural, mechanical and aesthetic elements in the final design. Writes specifications and other contract documents for use by builders. Consults with engineers for advice on soil, structural, hydraulic, mechanical, electrical and other technical problems. Confers with quantity surveyors and other consultants in developing feasibility studies and cost analyses and in preparing advice on financial arrangements, site location and land assembly. Inspects and exercises general oversight over construction work to ensure compliance with specifications.

May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May specialise in design of industrial, commercial, institutional, residential or recreational buildings or in conservation architecture.

#### *Job Content Factors*

##### *Workers*

FP: GE12y PSP5y(D) / (PG)	IP: T2m
HC: IRA	RQ: Q2 U1 V1

##### *Materials*

SM: D2 I1 P2 T2	EQ: P1 K2
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##### *Functions*

MA: I2 A1 P1 D1 R2 M2 L1	
PA: P1 S2 W2 E1	SA: A2 S2 L2 P1 M2 R4

##### *Context*

EC: T2 M1 L4	TC: A1 T2
SS: 7	SC: J0 (12y)

LMS: 1940 (60%SE)

ASIC: Many

#### 2050-B LANDSCAPE ARCHITECT

Plans and designs development of land areas for projects such as parks, schools, institutions, airports, roadways, land subdivisions and commercial, industrial and residential sites.

Confers with clients, architects and other professional workers on matters concerning design, planning earthworks, costs and timing. Compiles and analyses client, site and community data including geographic location, ecology of area, vegetation, soil, rock features, drainage and location of structures, to formulate land use and development recommendations. Prepares reports, site plans, working drawings, specifications and cost estimates for land development, showing ground contours, vegetation to be planted and/or retained, and locations of buildings and other structures. Prepares and advises on contracts. Inspects construction work in progress to ensure compliance with documents. Advises generally on landscape problems concerned with environmental planning and for design.

May perform duties as described under Master Title CONSULTANT and advise clients for a fee.

#### Job Content Factors

##### Workers

FP: GE12y PSP3-4y(D)

IP: T2m

HC: IRA

RQ: Q2 U1 V1

##### Materials

SM: D2 I1 P2 T2

EQ: P1 K2

##### Functions

MA: I2 A1 P1 D2 R2 M2 L2

PA: P1 S2 W2 E2

SA: A2 S2 P1 M2 R4

##### Context

EC: T2 M1 L4

TC: A1 T2

SS: 7

SC: I0 (12y)

LMS: 200-250 (60%SE)

ASIC: Many

#### 2050-Z

#### ARCHITECTURE OCCUPATIONS nec

This residual group covers occupations in architecture not elsewhere classified in Unit Group 2050.

### 2051 BUILDING OCCUPATIONS (PROFESSIONAL)

This unit group covers occupations concerned with the construction and refurbishment of buildings and related structures.

**Entry Requirements** a degree/diploma in building or similar discipline with an emphasis on the management, technology and/or economics of building.

**Activities include** studying and interpreting architectural and engineering drawings and specifications; preparing cost estimates, bills of quantities, and tender and contract documents; planning, organising and supervising construction methods and procedures, and the purchase of materials and equipment; managing site labour and co-ordinating subcontractors; maintaining budgetary control during the design and construction stages.

#### 2051-A

#### BUILDER, PROFESSIONAL Professional Builder

Plans, organises and manages the physical and human resources for the construction and maintenance of buildings in accordance with architectural and engineering drawings and specifications and to defined programs of time and cost, performing any combination of the following duties.

Interprets architectural specifications, drawings and bills of quantities. Plans building construction methods and procedures. Organises and manages site labour, and plans and organises procurement and delivery of the materials, plant and equipment needed for implementation of the building project. Establishes the overall program needed for co-ordination of site activities and work control systems to ensure that standards of building performance, quality, cost and safety are met. Studies building contract documents and undertakes commercial negotiations with building owners and sub contractors. Supervises preparation of tender estimates and documents for contract bids. Is cognisant of building and other regulations, standards and by-laws concerning building site operations. Consults with architects, engineers and other technical workers to ensure that the intent of the design is met.

May organise and supervise the building process, or the development and management of property, or engage in the administration of building legislation. May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May supervise technical officers, technicians, building tradespersons and other workers.

#### Related Occupation

Unit Group 1020 : Builder (Non-Professional)

#### Job Content Factors

##### Workers

FP: GE12y PSP3-5y(D) / (PG)

IP: T2m

HC: IRC

RQ: U1 D2 V1

##### Materials

SM: D1 P2 T2

EQ: K2

##### Functions

MA: I2 A1 P1 D2 R2 M2 L2

PA: S2 W2 E2

SA: S2 L2 P2 M2 R4

##### Context

EC: T2 M1 L2

TC: A1 T2

SS: 7

SC: 9 (8 y)

LMS: 6000-7000(10%SE)

ASIC: Many

#### 2051-B

#### QUANTITY SURVEYOR

Prepares cost estimates and bills of quantities for building and some civil engineering construction projects from examination and analysis of architectural and engineering sketches, drawings, specifications and contract documents, or from other information, and monitors progress of projects as to costs and quantities of materials, performing any combination of the following duties.

Prepares preliminary cost estimates from sketches and statements of requirements. Studies architectural and engineering drawings and specifications, using a knowledge of building construction methods, materials and labour costs, to determine estimated total costs. During the design phase, prepares a detailed cost plan and estimates as tools for

budgetary control. Prepares lists of items in accordance with standardised procedures and produces a bill of quantities for tendering purposes. Advises client on tenders when received. Regularly visits building site to assess value of work and recommends to architect or engineer that progress payments are fair to both client and contractor. Monitors any changes of design and assesses effects on cost, and may measure, value and negotiate variations. Prepares final cost statement on completion of the project. Consults with architects, builders and engineers on matters concerning building and structural design and construction, and tenders advice on costs.

May perform duties as described under Master Title CONSULTANT and advise clients for a fee. May advise on costs of alterations to existing buildings or structures, on relative costs of various materials and construction methods, and on alternative contractual procedures and special contractual clauses. May specialise in conducting feasibility studies and financial analyses, and be designated accordingly, e.g.

Building Economist

**Job Content Factors**

**Workers**

FP: GE12y PSP3y(Dip)  
or FP: GE12y PSP3-4y(D)  
HC: IRC

IP: T2m  
IP: T2m  
RQ: U2 V2

**Materials**

SM: D1 P2 T2

EQ: K2

**Functions**

MA: A1 P1 D2 R2 M2 L2  
PA: S2 W2 E1

SA: A2 S2 L2 P1

**Context**

EC: M1 L4  
SS: 7

TC: A1 T2  
SC: 10 (10y)

LMS: 750-1000 (0 %SE)

ASIC: Many

**2051-Z**

**BUILDING OCCUPATIONS  
(PROFESSIONAL) nec**

This residual group covers professional building occupations not elsewhere classified in Unit Group 2051.

**2052 CARTOGRAPHERS AND SURVEYORS**

This unit group covers occupations concerned with the planning, design, organisation and supervision of surveying and mapping systems and with the design, preparation and revision of maps.

**Entry Requirements** a degree/diploma in, or with major studies in, cartography or surveying.

**Activities include** undertaking field surveys of land and marine surfaces and of underground works; recording, sketching and computing survey data; preparing or supervising the preparation of plans, contour and sectional drawings, maps and charts; interpreting data from field surveys, aerial photographs and satellite imagery in the preparation of cadastral, topographic and thematic maps.

**2052-A CARTOGRAPHER**

Applies scientific and mathematical principles to the design, preparation and revision of maps and charts, performing any combination of the following duties.

Designs and compiles map manuscripts using digital and graphical source material including aerial photographs, satellite imagery, survey documents, existing maps and records, reports and statistics. Engages in both general purpose and special purpose mapping of which the principal types are cadastral (land tenure) and topographical, together with specialised mapping to meet needs in the fields of forestry, town planning, agriculture, engineering, geology, geography, hydrography, tourism etc. Supervises and co-ordinates the work of cartographic draftsmen/women in the production and reproduction of finished maps. Consults with surveyors and other professionals on the data requirements for map production and on the aesthetic technical and economic considerations of scales, details to be illustrated, place names and reproduction techniques.

May specialise in the preparation of maps for a specific purpose.

**Job Content Factors**

**Workers**

FP: GE12y PSP3y(D) / (Dip)  
HC: ICA

IP: T2m  
RQ: Q2 U1 V1

**Materials**

SM: D1 P2 T2

EQ: P1 K2

**Functions**

MA: A2 P2 D2 R2 M2 L2  
PA: P1 S2 W2 E1

SA: S2 L2 B2 R4

**Context**

EC: L1  
SS: 7

TC: A1  
SC: 10 (8 y)

LMS: 3250-3750(10%SE)

ASIC: Many

**2052-B**

**SURVEYOR**

Plans, directs or conducts survey work to determine, delineate, plan and position tracts of land, natural and constructed features, coastlines, marine floors and underground works, performing any combination of the following duties.

Undertakes research and development of surveying and photogrammetric measurement systems, cadastral systems involving land tenure, land use and land title registration, and land data banks. Plans and designs land subdivision projects, pursuing the processing of the land concerned through negotiation with local governments and other authorities to the development of allotments. Determines, either by direct measurement or by computation, the position of points in, on, under or over the earth's surface including points on the ocean bed and supervises the preparation of plans, maps, charts or other drawings to give a pictorial presentation of them. Compiles and evaluates data, interprets codes of practice, and writes reports concerning survey measurement, land use, land tenure and land design. Consults with specialists in allied fields in engineering, architecture and physical and social sciences regarding technical, environmental and other requirements connected with surveying, mapping and land subdivision and development. Supervises and co-ordinates the work of other surveyors, technical officers, technicians and other field and office workers.

May perform duties as described under Master Title CONSULTANT. May specialise in a particular branch of surveying and be designated accordingly, e.g.

Building Surveyor  
Cadastral Surveyor; Land Surveyor (Cadastral)  
Geodetic Surveyor; Land Surveyor (Geodetic)  
Hydrographic Surveyor  
Mining Surveyor  
Photogrammetric Surveyor

**Job Content Factors****Workers**

FP: GE12y PSP3-5y(D) / (PG)

IP: T2m

HC: IRC

RQ: U1 V1

**Materials**

SM: D1 P2 T2

EQ: P1 K2

**Functions**

MA: I2 A1 P1 D2 R2 M2 L2

PA: P1 S2 W2 E2

SA: S2 L2 P1 M2 R4

**Context**

EC: T2 M1 L2

TC: A1 I2

SS: 7

SC: I0 (12y)

LMS: 2750 (2 %SE)

ASIC: Many

## 2053 ARCHITECTURE, BUILDING AND SURVEYING DRAFTING AND OTHER TECHNICAL OFFICERS

This unit group covers design drafting and other technical occupations in the fields of architecture, building, surveying or cartography.

**Entry Requirements** a para-professional certificate, associate diploma or diploma in an aspect of architecture, building, surveying or cartography and up to 2 years' experience.

**Activities include** preparation of architectural or surveying drawings; constructing geographic maps and charts; assisting in the planning and organising of building projects; making routine calculations to provide data for drawings and designs; supporting the work of professional workers through the compilation, evaluation and analysis of data; compiling records and making reports on the technical aspects of projects.

### 2053-A TECHNICAL OFFICER, ARCHITECTURAL

Carries out complex technical functions in various aspects of architecture in support of design, development, estimating and site supervision activities, performing any combination of the following duties.

Performs duties directed towards the implementation of the architect's design concept. Prepares architectural drawings showing internal, external and other features of residential, industrial, commercial, institutional and other buildings. Analyses the technical implications of the architect's design, preparing sketches and detailed instructions. Makes calculations to determine type and quality of materials required. Prepares working drawings showing plans, elevations, sections, typical details, materials, finishes, and other aspects of a particular building project including layouts, plumbing, drainage, car parking and landscaping. Prepares cost and work completion estimates using a knowledge of material and labour costs. Represents the architect on the building site to ensure compliance with plans and specifications.

May discuss design details with client. May represent architect in negotiations with local government and other authorities.

**Job Content Factors****Workers**

FP: GE11-12y PSP2-3y(Adip) / (PPC)

IP: E0-2y

or FP: GE12y PSP3y(Dip)

IP: E0-2y

HC: CRA

RQ: U2 V1

**Materials**

SM: D1 P2 T2

EQ: P1 K2

**Functions**

MA: A1 P2 D2 R3 M2 L2

PA: P1 S2 W2 E1

SA: S2 L2 I2

**Context**

EC: M2 L1

TC: A1 T2

SS: 6

SC: 9 (14y)

LMS: 2000 (0 %SE)

ASIC: Many

### 2053-B DRAFTSMAN/WOMAN, ARCHITECTURAL

Prepares architectural drawings showing internal, external and other features of office blocks, residential structures, industrial, commercial and other buildings.

Prepares preliminary sketches showing proposed internal, external and other principal features as directed by architect. Makes calculations to determine type and quality of materials required. Prepares working drawings showing plans, elevations, sections, typical details, finishes and materials for all aspects of a particular project including layouts, plumbing, drainage, car parking, landscaping, architectural fittings, furniture and partitions. Prepares estimates of cost. Reads catalogues and publications for suitable parts and materials.

May estimate quantities of material required for project, compute costs and assist in the preparation of specifications. May make field trips to obtain measurements, restrictions, pertinent codes and applicable by-laws.

**Job Content Factors****Workers**

FP: GE11-12y PSP2-3y(Adip) / (PPC)

IP: E0-2y

or FP: GE12y PSP3y(Dip)

IP: E0-2y

HC: CRA

RQ: U2 V1

**Materials**

SM: D1 P2 T2

EQ: P1 K2

**Functions**

MA: A1 P2 D2 R3 M2 L2

PA: P1 S2 W2 E1

SA: S2 L2 I2

<i>Context</i>	
EC: M2 L1	TC: A1 T2
SS: 6	SC: 9 (14y)
LMS: 2000 (0 %SE)	ASIC: Many

**2053-C TECHNICAL OFFICER, BUILDING**

Carries out complex technical and supervisory functions concerned with the physical and human resources used in the construction of buildings, performing any combination of the following duties.

Studies architectural drawings and specifications of buildings, building regulations and codes of practice. Assists builder in the planning and organising of building projects. Undertakes the procurement and supervises the delivery of materials, plant and equipment to the building site. Draws up detailed programs for site works and the co-ordination of various trades. Inspects building construction to ensure compliance with plans and specifications. Reads contract and other documents, including building and other regulations, and negotiates with subcontractors and others on commercial and technical matters. Keeps records of building progress and of departures from design drawings or specifications, and makes reports to the builder and/or architect. Prepares cost and work completion estimates to support contract bids and contract variations.

May supervise and co-ordinate the work of tradespersons and other workers. May be concerned with a particular aspect of building operations and be designated accordingly, e.g.

Building Estimator                      Clerk of Works

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP2-3y(PPC) / (Adip)	IP: E0-2y
or FP: GE12y PSP3y(Dip)	IP: E0-2y
HC: IRC	RQ: U2 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ: K2
<i>Functions</i>	
MA: A1 P1 D2 R3 M2 L2	
PA: S2 W2 E2	SA: S2 L2 I2 B2 R4
<i>Context</i>	
EC: M1 L4	TC: A1 T2
SS: 6	SC: 10 (15y)
LMS: 6000 (0 %SE)	ASIC: Many

**2053-D TECHNICAL OFFICER, CARTOGRAPHY**

Carries out technical functions concerned with the collection, evaluation and computation of data for mapping and with the compilation and construction of maps and charts, in support of a professional cartographer, performing any combination of the following duties.

Collects, evaluates and selects source materials. Analyses survey data, source maps and photographs, computer or automated mapping products and other records to determine locations and names of features. Draws maps of geographical areas to show natural and constructed features, political boundaries and other features. Edits, revises and prepares for reproduction topographical, thematic and other maps and charts.

May specialise as to function or field and be designated accordingly, e.g.

Cartographic Technician  
Draftsman/woman, Cartographic  
Draftsman/woman, Topographic  
Field Map Editor

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP2-3y(PPC) / (Adip)	IP: E0-2y
HC: IRC	RQ: Q2 U2 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ: P1 K2

<i>Functions</i>	
MA: A2 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E1	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 6	SC: 9 (10y)
LMS: 3250-3750(0 %SE)	ASIC: Many

**2053-E DRAFTSMAN/WOMAN, SURVEYING**

Prepares survey plans and maps from field survey records, photogrammetric and other data compilations using a practical knowledge of the practices and techniques of surveying and cartography, performing any combination of the following duties.

Studies survey records, cartographic and other data, makes calculations and analyses data prior to processing preliminary plot or map; and makes any necessary changes in consultation with a surveyor or a cartographer. Selects scales and determines scaled dimensions. Refers to and interprets codes of drafting practice. Performs computations and prepares more complex finished plans, maps, charts and other drawings. Operates photogrammetric equipment for the acquisition of data. Prepares reproduction material by scribing on film images of original manuscript to produce a final negative in colour-separated form.

May supervise and co-ordinate the work of other draftsmen/women. May specialise in photogrammetry and be designated accordingly, e.g.

Photogrammetrist

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP2-3y(PPC) / (Adip)	IP: E0-2y
HC: IRC	RQ: U2 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: A2 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E1	SA: S2 L2 I2 B2 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 6	SC: 9 (10y)
LMS: 3000 (0 %SE)	ASIC: Many

**2053-F TECHNICAL OFFICER, SURVEYING**

Carries out technical functions concerned with surveying field work and computations in support of a professional surveyor, performing any combination of the following duties.

Uses surveying instruments to make field observations for the determination of position and height of points on the earth's surface for cadastral, geodetic, topographic, hydrographic, engineering, mining and other surveying purposes. Compiles field survey records. Reduces angular distances and height observations, carries out closure checks and other routine surveying computations, and makes preliminary plots of data. Supervises and co-ordinates the work of survey assistants and other workers.

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP2-3y(PPC) / (Adip)	IP: E0-2y
HC: IRC	RQ: U2 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: A2 P2 D2 R3 M2 L2	
PA: P1 S2 W2 E2	SA: S2 L2 B2 R4
<i>Context</i>	
EC: T2 M1 L2	TC: A1 I2
SS: 6	SC: 9 (10y)
LMS: 2000 (0 %SE)	ASIC: Many

2053-Z	ARCHITECTURE, BUILDING AND SURVEYING DRAFTING AND OTHER TECHNICAL OFFICERS <i>nec</i>	This residual group covers architecture, building and surveying drafting and other technical officers not elsewhere classified in Unit Group 2053.
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**2059 OTHER ARCHITECTURE, BUILDING AND SURVEYING OCCUPATIONS**

This residual unit group covers occupations concerned with architecture, building, surveying or cartography functions not elsewhere classified in Minor Group 205.

**2059-Z ARCHITECTURE, BUILDING AND  
SURVEYING OCCUPATIONS *nec***

This residual group covers occupations in architecture, building, surveying and cartography not elsewhere classified in Unit Group 2059, e.g.  
Architectural Tracer  
Draftsman/woman, Survey Detail; Drafting Assistant,  
Surveying

- Surveying Tracer
- Trainee Architectural Technical Officer
- Trainee Building Officer
- Trainee Building Technical Officer
- Trainee Cartographer
- Trainee Survey Draftsman/woman
- Trainee Surveyor
- Trainee Survey Technical Officer

2053-Z ARCHITECTURE, BUILDING AND SURVEYING DRAFTING AND OTHER TECHNICAL OFFICERS nec

This residual group covers architecture, building and surveying drafting and other technical officers not elsewhere classified in Unit Group 2053.

2059 OTHER ARCHITECTURE, BUILDING AND SURVEYING OCCUPATIONS

This residual unit group covers occupations concerned with architecture, building, surveying or cartography functions not elsewhere classified in Minor Group 205.

2059-Z ARCHITECTURE, BUILDING AND SURVEYING OCCUPATIONS nec

This residual group covers occupations in architecture, building, surveying and cartography not elsewhere classified in Unit Group 2059, e.g.  
Architectural Tracer  
Draftsman/woman, Survey Detail; Drafting Assistant, Surveying

- Surveying Tracer
- Trainee Architectural Technical Officer
- Trainee Building Officer
- Trainee Building Technical Officer
- Trainee Cartographer
- Trainee Survey Draftsman/woman
- Trainee Surveyor
- Trainee Survey Technical Officer

## **MAJOR GROUP 21**

### **SOCIAL SCIENCE OCCUPATIONS**

Social Science Occupations are classified in the following minor groups.

- 210 Social Science Occupations
- 211 Social Welfare Occupations
- 212 Legal Occupations
- 213 Museum, Library and Archives Occupations

#### *Related Occupations*

- |                |   |
|----------------|---|
| Major Group 23 | : Teaching and Related Occupations          |
| Major Group 10 | : Managerial and Administrative Occupations |

# 21 SOCIAL SCIENCE OCCUPATIONS

## 210 SOCIAL SCIENCE OCCUPATIONS

### 2100 ECONOMISTS AND ECONOMETRICIANS

2100-A Economist, General  
2100-B Economist, Research  
2100-C Agricultural Economist  
2100-D Econometrician  
2100-E Financial Economist  
2100-F Industrial Economist  
2100-G Investment Analyst  
2100-H Transport Economist  
2100-Z Economists and Econometricians nec

### 2101 PSYCHOLOGISTS

2101-A Clinical Psychologist  
2101-B Counselling Psychologist  
2101-C Educational Psychologist  
2101-D Occupational Psychologist  
2101-Z Psychologists nec

### 2102 URBAN AND REGIONAL PLANNERS

2102-A Urban and Regional Planner

### 2109 OTHER SOCIAL SCIENTISTS

2109-A Anthropologist  
2109-B Geographer  
2109-C Historian  
2109-D Home Economist  
2109-E Sociologist  
2109-Z Social Scientists nec

## 212 LEGAL OCCUPATIONS

### 2120 JUDGES, MAGISTRATES AND RELATED OCCUPATIONS

2120-A Coroner  
2120-B Judge  
2120-C Stipendiary Magistrate  
2120-D Member, Administrative Appeals Tribunal  
2120-E Member, Industrial Tribunal  
2120-Z Judges, Magistrates and Related Occupations nec

### 2121 LAWYERS

2121-A Barrister  
2121-B Corporate Legal Officer  
2121-C Parliamentary Counsel  
2121-D Solicitor  
2121-Z Lawyers nec

### 2129 OTHER LEGAL AND RELATED OCCUPATIONS

2129-A Articled Clerk  
2129-B Court Registrar  
2129-C Master, Court  
2129-D Bailiff  
2129-E Clerk of Court  
2129-F Court Orderly  
2129-G Judge's Associate  
2129-H Sheriff  
2129-I Patent Attorney  
2129-J Patent Examiner  
2129-Z Legal and Related Occupations nec

## 211 SOCIAL WELFARE OCCUPATIONS

### 2110 SOCIAL WORKERS

2110-A Community Social Worker  
2110-B Social Case Worker  
2110-C Social Planner/Administrator  
2110-Z Social Workers nec

### 2111 COUNSELLORS, SOCIAL WELFARE

2111-A Counsellor, General  
2111-B Family Law Court Counsellor  
2111-C Rehabilitation Counsellor  
2111-Z Counsellors, Social Welfare nec

### 2119 OTHER SOCIAL WELFARE OCCUPATIONS

2119-A Community Worker  
2119-B Parole Officer  
2119-C Probation Officer  
2119-D Welfare Officer  
2119-E Youth Worker  
2119-F Recreation Officer  
2119-G Student Activities Officer  
2119-Z Social Welfare Occupations nec

## 213 MUSEUM, LIBRARY AND ARCHIVES OCCUPATIONS

### 2130 MUSEUM AND ART GALLERY OCCUPATIONS (PROFESSIONAL)

2130-A Curator, Museum/Art Gallery Department  
2130-Z Museum and Art Gallery Occupations (Professional) nec

### 2131 MUSEUM TECHNICIANS

2131-A Museum Technician

### 2132 LIBRARIANS (PROFESSIONAL)

2132-A Librarian

### 2133 LIBRARY TECHNICIANS

2133-A Library Technician

### 2139 OTHER MUSEUM, LIBRARY AND ARCHIVES OCCUPATIONS

2139-A Archivist  
2139-Z Museum, Library and Archives Occupations nec

## MINOR GROUP 210 SOCIAL SCIENCE OCCUPATIONS

Social Science Occupations are classified in the following unit groups.

- 2100 Economists and Econometricians
- 2101 Psychologists
- 2102 Urban and Regional Planners
- 2109 Other Social Scientists

### 2100 ECONOMISTS AND ECONOMETRICIANS

This unit group covers occupations concerned with conducting research, developing and applying principles and theories of economics and formulating plans for the solution of economic problems arising from the production and distribution of goods and services.

**Entry Requirements** a degree in economics, commerce or in a related discipline; occupations involving research normally require an honours or higher degree.

**Activities include** conducting research into the mathematical basis of the study of economics; developing models to illustrate and forecast economic activity and patterns; devising methods for collection and analysis of economic and statistical data; compiling and interpreting such data; preparing reports, estimates and forecasts based on economic studies and on analysed and interpreted data; advising industry or government on questions in specialised fields, such as finance and monetary policy, international trade, labour, agriculture, industrial production, transport, urban and regional matters or the environment.

#### *Related Occupations*

Unit Group 1030 : Accountants and Auditors

#### 2100-A ECONOMIST, GENERAL

Under supervision, assembles, analyses and evaluates economic data and constructs economic models; on the basis of information so gained, prepares estimates, projections and reports.

Collects and analyses statistical material relating to technical, economic and social developments. Compiles and organises data and makes interpretations and forecasts for checking by experienced economist. Participates in planning of projects. Provides assistance to those responsible for developing and implementing policies. Prepares draft reports summarising developments and trends.

May specialise progressively for eventual designation elsewhere in this unit group.

##### *Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP3y(D)	IP: T2y
or FP: GE12y PSP4y(PG)	IP:
HC: 1AS	RQ: U1
<i>Materials</i>	
SM: D1 I2	EQ: K2
<i>Functions</i>	
MA: I1 A1 R2 M1 L1	
PA: S1 E1	SA: A2 S1 P2 R4

##### *Context*

EC: L1	TC: A1
SS: 4	SC: 9-10 (vy)

LMS: 3000-4000(0 %SE)

Asic: Many

#### 2100-B ECONOMIST, RESEARCH

Conducts research, analyses and evaluates economic data, prepares estimates, projections and reports on the basis of past and current trends and theoretical models.

Devises methods for collecting and analysing background material on technical, economic and social developments. Compiles, organises and interprets data and forecasts future trends. Evaluates factors affecting resource utilisation and advises on matters related to operating efficiency, marketing and fiscal matters. Participates in planning of projects and provides assistance to those responsible for developing policies. Prepares reports summarising developments and trends. Analyses data to explain variations and relationships in economic trends using suitable models, theories and techniques.

May specialise in research into the economic implications of policies affecting specific aspects of society, and be designated accordingly, e.g.

Educational Economist      Labour Economist

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4y(PG)	IP: E0-2y
or FP: GE12y PSP5-7y (HD)	IP: E0-2y
HC: IAS	RQ: U1
<b>Materials</b>	
SM: D1 I1	EQ: K2
<b>Functions</b>	
MA: I1 A1 D2 R1 M1 L1	
PA: S1 E1	SA: A1 S2 P2 R4
<b>Context</b>	
EC: L1	TC: A1
SS: 4	SC: 9-10 (vy)
LMS: 300-400 (0 %SE)	Asic: 84,824

**2100-C AGRICULTURAL ECONOMIST**

Studies economic aspects of agriculture with a view to advising on the economic aspects of the production, distribution and marketing of farm products.

Examines farm structure, productivity, income and finance, and regional aspects of agriculture. Analyses price determinations, the structure and efficiency of agricultural marketing firms, government intervention in markets and other matters related to the marketing of agricultural products. Investigates foreign and domestic commodity markets, agricultural transportation, world food issues and other influences in international commodity trade. Examines farm credit structures and institutions. Makes or participates in economic evaluations of such projects as land reclamation, irrigation, land settlement, livestock improvement, agricultural credit and other agricultural programs and services. Assists in the formulation of agricultural policy and legislation. Provides information and training for farm business management.

May specialise in farm management economics and be designated accordingly,

Farm Management Economist

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3y(HD) /(D)	IP: E0-2y
or FP: GE12y PSP4y(HD) /(PG)	IP:
HC: IAS	RQ: U2
<b>Materials</b>	
SM: D1 I2 P2	EQ: K2
<b>Functions</b>	
MA: I1 A1 R2 M1 L1	
PA: S1 W2 E1	SA: A2 S1 P2 R4
<b>Context</b>	
EC: T2 L1 C06,08	TC: A1
SS: 5	SC: 9 (vy)
LMS: 150-200 (0 %SE)	Asic: 84,475

**2100-D ECONOMETRICIAN**

Develops quantifiable models to illustrate and forecast economic behaviour and patterns, and devises methods of applying mathematics to economics to aid in the development of economic theory.

Performs duties similar to those of 2100-B ECONOMIST, RESEARCH. Specialises in quantifying economic theories. Applies mathematical and statistical techniques to the testing of economic theories and the solution of economic problems. Advises industry or government on the quantifiable results of their policy implementation using econometric models.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4y(HD) /(PG)	IP: E0-2y
or FP: GE12y PSP4-7y(HD) /(HD)	IP:
HC: IAS	RQ: U1
<b>Materials</b>	
SM: D1 I1	EQ: K2
<b>Functions</b>	
MA: I1 A1 D2 R1 M1 L1	
PA: S1 E1	SA: A2 S1 P2 R4

**Context**

EC: L1	TC: A1
SS: 5	SC: 9 (vy)
LMS: 600-800 (0 %SE)	Asic: 84,824

**2100-E FINANCIAL ECONOMIST**

Studies nature of money, credit and credit instruments, and the operation of banks and other financial institutions to develop recommendations for monetary policies and forecasts of financial activity.

Performs duties similar to those of 2100-B ECONOMIST, RESEARCH. Specialises in the study of financial activities of financial institutions and economic aspects of monetary policies of federal government and reserve bank. Investigates and develops improvements in credit structures and credit-collection methods. Examines banking methods and procedures to devise techniques for regulation of lending and fixing of interest and discount rates. Investigates interrelationship of quantity of money, credit and purchasing power to find methods for establishing and maintaining desirable balances.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3-4y(D) /(PG)	IP: E0-2y
HC: IAS	RQ: U1
<b>Materials</b>	
SM: D1 I2	EQ: K2
<b>Functions</b>	
MA: I1 A1 D2 R1 M1 L1	
PA: S1 E1	SA: A2 S1 P1 R4
<b>Context</b>	
EC: L1	TC: A1
SS: 5	SC: 9 (vy)
LMS: 600-800 (0 %SE)	Asic: 84,61,71

**2100-F INDUSTRIAL ECONOMIST**

Studies and analyses economic factors involved in production, pricing, distribution and use of goods and services and makes recommendations designed to ensure maximum use of assets and the development of desirable markets.

Performs duties similar to those of 2100-B ECONOMIST, RESEARCH. Specialises in the study of problems related to the economic activity of individual companies. Examines financing methods, production costs and techniques, and marketing policies to discern trends and discover possible improvements. Studies organisational structures of business concerns and relationships to marketing and production methods. Analyses market trends to relate production to future consumption. Interprets effects of government regulations and restrictions on industrial policies. Advises on economic implications of policy alternatives.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3y(D)	IP: E0-2y
or FP: GE12y PSP4y(PG)	IP:
HC: IAS	RQ: U1
<b>Materials</b>	
SM: D1 I1	EQ: K2
<b>Functions</b>	
MA: I1 A1 D2 R1 M1 L1	
PA: S1 E1	SA: A2 S1 P2 R4
<b>Context</b>	
EC: L1	TC: A1
SS: 5	SC: 9 (vy)
LMS: 750-1000 (0 %SE)	Asic: 84

**2100-G INVESTMENT ANALYST**

Makes statistical analyses of information affecting investment programs of public, industrial and commercial institutions, such as banks, insurance companies, share brokers and merchant bankers, and interprets the data for their use.

Collects data on investments, their prices, yields, stability and future trends from daily stock exchange reports, financial press, and personal interviews with managements. Constructs charts and graphs to illustrate trends. Summarises data, setting forth current and long term trends in investment risks and measurable economic influences pertinent to status of investments. Investigates and analyses losses and adverse financial trends and suggests remedial measures.

May supervise and co-ordinate activities of workers engaged in conducting and processing statistical analyses of information affecting institutional or organisational investment programs. May specialise in securities analysis and be designated,

Securities Analyst

May use knowledge of geology and mining to specialise in mining investment and be designated,

Mining Analyst

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3y(D)	IP: T2-3y
or FP: GE12y PSP4y(PG)	IP:
HC: IAS	RQ: U2
<i>Materials</i>	
SM: D1 P2	EQ: K2
<i>Functions</i>	
MA: I1 A1 P2 R1 M1 L1	
PA: S1 W2 E1	SA: S1 P1 R4
<i>Context</i>	
EC: L1	TC: A1 T2
SS: 5	SC: 9 (vy)
LMS: 1300-2000(0 %SE)	Asic: 84,61,62,63

## 2100-H TRANSPORT ECONOMIST

Studies economic aspects of freight and passenger transport.

Performs duties similar to those of 2100-B ECONOMIST, RESEARCH. Specialises in study of economic aspects of freight and passenger transport, such as pricing, investment and subsidisation. Studies factors affecting demand for transport and constructs mathematical and econometric models of demand. Examines supply of transport, pricing and underlying costs of various services, profitability and new investment, and direct and indirect subsidisation. Evaluates impact of new projects and policies on transport sector and on related sectors of the economy.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP4y(D)	IP: E0-2y
or FP: GE12y PSP4y(PG)	IP:
HC: IAS	RQ: U1
<i>Materials</i>	
SM: D1 I1	EQ: K2
<i>Functions</i>	
MA: I1 A1 D2 R1 M1 L1	
PA: S1 E1	SA: S1 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 5	SC: 9 (vy)
LMS: 100-200 (0 %SE)	Asic: 84

## 2100-Z ECONOMISTS AND ECONOMETRICIANS nec

This residual group covers economists and econometricians not elsewhere classified in Unit Group 2100.

## 2101 PSYCHOLOGISTS

This unit group covers occupations concerned with collecting and interpreting scientific data for the purpose of investigating psychological phenomena and formulating and applying psychological principles in understanding, predicting and managing behaviour in society.

**Entry Requirements** an honours degree in psychology or its equivalent; however, many psychology occupations also require a higher degree.

**Activities include** observing behaviour; measuring mental and physical characteristics; studying mental and behavioural problems in a variety of social contexts; recommending and providing treatment for mental and personality disorders; suggesting and presenting programs to enhance personal satisfaction and effectiveness and to improve the quality of life; using counselling and other means to treat or prevent maladaptive behaviour or to bring about improvements in social, educational, occupational or health-care environments; evaluating such programs and procedures; planning and conducting experiments using human and/or animal subjects.

#### Related Occupations

Occupation 2401-E	: Psychiatrist
Minor Group 211	: Social Welfare Occupations

## 2101-A CLINICAL PSYCHOLOGIST

Assesses cognitive, behavioural and emotional disorders of individuals, and develops, administers and evaluates individual and group treatment programs.

Specialises in examining psychological and behavioural difficulties, particularly when these occur in relation to ill health or handicap. Interviews patients and clients in clinics, hospitals, prisons, welfare and other institutions. Studies medical and social case histories. Observes patients in various situations. Selects, administers and interprets intellectual, achievement, interest, personality, diagnostic and other psychological tests to identify disorders and formulate plans

for treatment. Takes part in consultations and case conferences with, and may provide training for, members of other health and welfare professions. Provides assessment, therapy, training, and preventive and rehabilitation programs for mental illness, personality and behaviour disorders, intellectual handicap and other health problems.

May specialise in use of specific psychological techniques, e.g. behaviour modification, counselling, hypnosis and psychotherapy. Follows up the results of interventions to determine the effectiveness of the procedures employed. May collaborate with other specialists in developing other treatment programs. May conduct research in a relevant area of clinical psychology. May specialise in the application of psychology to the assessment, treatment and rehabilitation of individuals with damage to the brain or central nervous system and be designated,

Neuropsychologist

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP6y(HD)	IP:
or FP: GE12y PSP4y(PG)	IP: T2y
HC: ISA	RQ: P2 U1
<b>Materials</b>	
SM: D2 I2 P1	EQ:
<b>Functions</b>	
MA: I1 A1 P2 D1 R1 M3 L1	
PA: S1 W2 E1	SA: S1 P1
<b>Context</b>	
EC: L1	TC: A1
SS: 9	SC: 11 (17y)
LMS: 600 (1 %SE)	Asic: 05,81,82

### 2101-B COUNSELLING PSYCHOLOGIST

Provides information, counselling and services in vocational guidance, marriage guidance, and the encouragement of personal development to individuals and groups in welfare agencies, clinics and rehabilitation centres, in schools and other educational institutions, and in places of employment.

Specialises in assisting people, individually or in groups, to achieve more satisfactory and effective personal, social, educational, vocational, and marital adjustment and development. Collects data about clients through interviews, case histories, observation, and from families, referring agencies, and others who know them. Selects, administers, scores and interprets psychological tests to assess abilities, aptitudes, achievements, interests and personality characteristics. Evaluates data to identify possible sources of problems; and to determine advisability of counselling or therapeutic interviews to assist clients to gain insight into personal problems, to define goals, and plan action based on understanding of themselves, their interpersonal relationships, and opportunities and limitations of their environments. Collects, organises, and provides occupational, educational and other information to enable clients to formulate realistic educational and vocational plans, and supports clients during implementation of their plans. Runs groups to develop self-understanding and confidence, assertiveness, communication, and other interpersonal skills. Follows up results of individual and group programs to determine reliability and validity of procedures used.

May employ specialised psychological techniques such as biofeedback, relaxation, psychodrama and transactional analysis. May engage in research to develop and improve assessment and counselling techniques. May work in less formal organisations dealing with various health and welfare problems of, e.g. ex-prisoners, low income earners, battered spouses and children, drug and alcohol addicts, potential suicide cases; mobilising and co-ordinating resources of sub-professional and voluntary workers; and providing consultation, training supervision, and specialised psychological skills in delivery of services; may be designated accordingly, e.g.

Community Psychologist

#### Related Occupation

Occupation 2111-A : Counsellor (General)

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP4-6y(HD) /(PG)	IP: T0-2y
or FP: GE12y PSP3-4y(PG) /(D)	IP: T1y
HC: STA	RQ: P2 U1
<b>Materials</b>	
SM: D2 I1 P1	EQ:
<b>Functions</b>	
MA: I1 A1 P2 D2 R1 M3 L1	
PA: S1 E1	SA: S1 P1
<b>Context</b>	
EC: L1	TC: A1
SS: 8	SC: 10 (17y)
LMS: 3000-3500(1 %SE)	Asic: 81,82

### 2101-C EDUCATIONAL PSYCHOLOGIST Guidance Officer

Investigates processes of learning and teaching, and develops psychological principles and techniques to foster intellectual, social and emotional development and practical skills of individuals and groups in educational settings.

Specialises in the study of educational problems. Conducts research to study motivation in learning, transfer of training in teaching situations, causes of individual differences in educational performance, and behaviour of classroom groups. Analyses characteristics of students, using interviews, observations of classroom behaviour, performance in psychological tests, information from parents, teachers and educational records, and recommends educational programs to promote optimal development. Constructs and develops achievement, diagnostic and predictive tests to aid teachers and instructors in planning methods and content of courses. Uses interviews, tests etc. to diagnose handicaps and difficulties of students, to predict achievement and to develop special programs of remedial instruction. Provides educational and vocational guidance, training in study skills, and personal counselling to individuals and groups of students. Investigates conditions conducive to effective teaching. Studies characteristics of successful teachers to aid in selection and adjustment; collaborates with educational specialists in developing methods of organising and conducting programs of education and training, in planning curriculum content, and in evaluating programs.

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP4-6y(HD) /(PG)	IP: T0-2y
or FP: GE12y PSP3-4y(PG) /(D)	IP: T1y
HC: ISA	RQ: U1
<b>Materials</b>	
SM: D2 I1 P1	EQ: K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R1 M2 L1	
PA: S1 W2 E1	SA: A2 S1 P2
<b>Context</b>	
EC: L1	TC: A1
SS: 8	SC: 10 (17y)
LMS: 3000-3500(0 %SE)	Asic: 82,83

### 2101-D OCCUPATIONAL PSYCHOLOGIST Industrial Psychologist

Uses psychological principles and develops psychological techniques to study occupational behaviour, working conditions, and organisational structures; applies findings to problems of work adjustment, personnel administration, organisational design and management, and marketing.

Specialises in study of human behaviour and relations in work environments. Observes and interviews workers, supervisors and managers to establish physical, mental, educational and other job requirements and to effect optimal physical and social structures for meeting requirements. Develops and validates application forms, interview procedures, job

simulations, rating scales, and psychological tests to assess abilities, aptitudes, skills, interests, and personality characteristics as aids in selection, placement counselling, appraisal and promotion. Organises staff training and development programs applying principles of learning and motivation from differential, educational, and social psychology. Evaluates selection, training, job design, and other procedures by statistical analyses of changes in personal (performance, creativity, satisfaction) and organisational (productivity, accidents, absenteeism, labour turnover) effectiveness. Counsels employees with problems of work and personal adjustment, and implements career development and manpower planning programs. Investigates problems related to physical working environment, such as illumination, noise, temperature and ventilation, and methods of work, and recommends changes to increase efficiency and job satisfaction and to decrease accident rates. Conducts surveys and research studies on motivation and attitudes to work, design of jobs, relations within and between work groups, effectiveness of supervision and management, communication patterns, organisational climate, and quality of working life.

May advise management or unions on work stress, occupational health, organisational design, or industrial relations problems. May study consumer needs for products and services and their reactions to new products and designs, using surveys, experiments and tests, and measuring effectiveness of advertising media to aid in the sale of goods

and services. May investigate layout design, and use of equipment and systems, and examine their suitability for and effects on human operators, and be designated,  
Ergonomist

May apply psychological principles and techniques to selection, classification, training, assignment and management of service personnel, and be designated,  
Military Psychologist

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-6y(HD) /(PG)	IP: T0-2y
or FP: GE12y PSP3-4y(PG) /(D)	IP: T1y
HC: ISA	RQ: U1
<b>Materials</b>	
SM: D2 I1 P1	EQ: K2
<b>Functions</b>	
MA: I1 A1 P1 R1 M1 L1	
PA: S1 W2 E1	SA: A1 S2 P2 R4
<b>Context</b>	
EC: L1	TC: A1
SS: 8	SC: 10 (17y)

LMS: 3000-3500(0 %SE)

Asic: 81

**2101-Z PSYCHOLOGISTS nec**

This residual group covers psychologists not elsewhere classified in Unit Group 2101, e.g.

Consulting Psychologist

**2102 URBAN AND REGIONAL PLANNERS**

This unit group covers occupations concerned with developing plans and policies for the use of urban or rural land.

**Entry Requirements** a degree in urban and regional planning, or other relevant discipline together with a post-graduate diploma in urban and regional planning.

**Activities include** developing and recommending plans and policies for the controlled use of land, analysing the spatial aspects (local, regional etc.) of social and economic policy, and planning the cultural and physical development of communities.

**Related Occupations**

Minor Group 205 : Architecture, Building and Surveying Occupations

**2102-A URBAN AND REGIONAL PLANNER**

Develops and implements plans and policies for the controlled use of urban and rural land and economic and social needs of local, sub-regional and regional areas.

Compiles, analyses and reports data on economic, legal, political, cultural, demographic, sociological, psychological, physical and environmental factors affecting land use. Confers with local and other government authorities, civic leaders, social scientists, lawyers, and planning and development specialists. Devises and recommends appropriate use and development of land and methods by which this may be achieved. Prepares and presents narrative and graphic plans, programs and designs to groups and individuals. Recommends measures affecting land use, public utilities, community facilities, housing and transportation to control and guide community development and renewal.

May supervise and control the work of technical officers and technicians. May be employed by government at local, State, regional or federal level, or by a private firm. May specialise in the planning of particular areas or facilities and be designated accordingly, e.g.

Community Planner  
Town Planner  
Urban Designer  
Planning Officer  
Traffic and Transport Planner

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-6y(PG)	IP:
or FP: GE12y PSP3-4y(D)	IP:
HC: IRE	RQ: U1
<b>Materials</b>	
SM: D1 I2 P2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P2 D1 R1 M1 L1	
PA: S1 W2 E1	SA: A2 S1 P2 R4

## Context

EC: L1  
SS: 7TC: A1  
SC: 10 (13y)

LMS: 750 (4 %SE)

Asic: Many

## 2109 OTHER SOCIAL SCIENTISTS

This unit group covers occupations not elsewhere classified which are mainly concerned with human society and its social and political institutions.

**Activities include** studying the evidence of past human activity and preparing accounts of findings; analysing the spatial distribution and interrelationship of human and physical phenomena; and studying the theory, origin, development and functioning of political institutions.

## 2109-A ANTHROPOLOGIST

Makes comparative studies of the origin, development and functioning of human societies and cultures, and of man's evolution, distribution and physical characteristics.

Gathers, analyses and reports data on social and cultural behaviour, artefacts, language and human biology of groups and societies. Uses data to make comparative studies of the development, activities and relationships of human societies and cultures. Studies, through field examination and reports, modern human societies, particularly previously non-literate or indigenous groups.

May study the interrelationships of languages as they may relate to the cultures of societies. May study cultural or social change brought about by contact with other societies or groups or by environmental change. May specialise in the means and causes of human physical differences and interrelated effects of culture, heredity and environment on human form. May reconstruct records of extinct cultures, especially pre-literate cultures, by studying material remains obtained from archaeological investigations. May supervise programs for the protection and preservation of monuments, sites and artefacts of historical, scientific or cultural significance.

## Job Content Factors

## Workers

FP: GE12y PSP3y(D)  
or FP: GE12y PSP4-7y(PG)/(HD)  
HC: IARIP:  
IP:  
RQ: U1

## Materials

SM: D1 I2 P1 T2

EQ: P2 N2 K2

## Functions

MA: I1 A1 R1 M1 L1  
PA: S1 W2 E2

SA: A2 S1 P2 R4

## Context

EC: T2 M2 L4  
SS: 7TC: A1 I2  
SC: 10 (10y)

LMS: 500-750 (0 %SE)

Asic: Many

## 2109-B GEOGRAPHER

Studies and analyses the spatial distribution and interrelationship of material and human phenomena in the space accessible to man.

Observes, collects and measures data related to area of geographical specialisation, such as climate, soil and biological distribution, and social, economic and political activities. Analyses and interprets statistical data and experimental information. Advises on marketing problems, industrial and commercial site locations and similar matters. Advises or acts

as consultant to governments and organisations on urban and regional planning, resource planning, transportation, boundary demarcations, pollution control, land use, placement of public facilities, housing, urban renewal and other matters. Assists in the compilation of maps, atlases and other compendiums of geographic information.

May specialise in a particular branch of geography and be designated accordingly, e.g.

Demographer

Economic Geographer

Historical Geographer

Urban Geographer

## Job Content Factors

## Workers

FP: GE12y PSP3y(D)  
or FP: GE12y PSP4-7y(PG)/(HD)  
HC: IRSIP:  
IP:  
RQ: U1

## Materials

SM: D1 I2 P2 T1

EQ: P2 K2

## Functions

MA: I1 A1 R1 M1 L1  
PA: P2 S1 W2 E1

SA: A2 S1 P2 R4

## Context

EC: T2 L1  
SS: 7TC: A1  
SC: 10 (10y)

LMS: 500-750 (0 %SE)

Asic: Many

## 2109-C HISTORIAN

Conducts research into one or more phases of past human activity and prepares chronological and/or thematic accounts or records of findings.

Conducts research into history of a particular country, area, institution or period or into a particular event, person or group of persons, or aspect of history, such as economic, social or political. Compiles historical data by consulting and studying the works of other historians or related researchers, and consulting primary sources of information, such as diaries and newspaper files in archives, libraries etc, and by interviewing people. Organises, authenticates, evaluates and interprets data and presents findings and conclusions in written or other form.

May act as an adviser or consultant and perform research for individuals, institutions or commercial organisations. May be involved with the setting up and supervising of museums. May specialise in a particular branch of history and be designated accordingly, e.g.

Australian Historian  
Economic Historian

Consultant Historian

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3y(D) or FP: GE12y PSP4-8y(HD) /(PG) HC: SE1	IP: IP: RQ: U1
<i>Materials</i>	
SM: D2 I1 P2	EQ: K2
<i>Functions</i>	
MA: I1 A1 P2 R2 L1 PA: S1 E1	SA: A1 S2 P2 R4
<i>Context</i>	
EC: L1 SS: 7	TC: A1 SC: 10 (10y)
LMS: 500-750 (0 %SE)	ASIC: Many

2109-D HOME ECONOMIST

Develops, interprets and applies principles of home-making in order to advise on the development, marketing and use of domestic goods and services and on family resource management.

Engages in research to develop products related to the home, to identify consumers' needs and preferences and to gain information about areas of family resource management. Selects and prepares food using controlled procedures to demonstrate features of cooking appliances, recipes or food products for home use or marketing. Tests food products and methods of food preparation to evaluate nutritional, taste and aesthetic qualities, and value for money. Applies knowledge gained from research in the development of new techniques with food. Evaluates textiles and clothing products, using laboratory procedures, to assess qualities, such as utility and wearability. Evaluates home appliances, such as cookers, washers, sewing machines, cleaners and food mixers and domestic products, such as cleaning agents to assess utility. Acts as resource person to assist in identification of problems of individual home-makers and as a source of advice in seeking solutions to problems related to household management, such as finance and budgeting, selection of goods (including furniture, appliances, clothing) and services, efficient use of time, energy and other resources. Interprets, applies and communicates research findings related to home economics to non-experts through lectures, folders, newspaper columns, advertising copy and promotional literature.

May specialise in one aspect of home economics and be designated accordingly, e.g.

- Home Economics Community Adviser
- Home Economics Food Consultant

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3y(D) or FP: GE12y PSP3y(Dip) HC: SE1	IP: IP: RQ:
<i>Materials</i>	
SM: D2 P1 T1	EQ: S1
<i>Functions</i>	
MA: I1 P1 R2 M3 L2 PA: U1 C2 S2 W1 E2	SA: A2 S1 I2 P2
<i>Context</i>	
EC: L1 SS: 8	TC: A1 SC: 10 (9 y)
LMS: 250-500 (0 %SE)	ASIC: 82

2109-E SOCIOLOGIST

Studies the development, structure, social patterns and interrelationships of human societies and the social consequences thereof.

Observes and investigates social phenomena, such as the family, the community, education, industrial relations, crime, politics, minority and ethnic relations, poverty and mass communications. Devises methods of collection and analysis of sociological data. Analyses and interprets data obtained and correlates findings with other research on the same and related fields. Organises and presents data and conclusions of recommendations in forms suitable for application by government, educational institutions, industry, welfare organisations or other interested bodies.

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3y(D) or FP: GE12y PSP4-7y(PG) HC: SAI	IP: IP: RQ: U1
<i>Materials</i>	
SM: D1 I2 P1	EQ: K2
<i>Functions</i>	
MA: I1 A1 R1 M1 L1 PA: S1 W2 E1	SA: A2 S1 P2
<i>Context</i>	
EC: L1 SS: 8	TC: A1 SC: 10 (10y)
LMS: 2500-3000(0 %SE)	ASIC: 81

2109-Z OTHER SOCIAL SCIENTISTS nec

This residual group covers social science occupations not elsewhere classified in Unit Group 2109, e.g.

- Archaeologist
- Criminologist
- Linguist
- Political Scientist

MINOR GROUP 211  
SOCIAL WELFARE OCCUPATIONS

Social Welfare Occupations are classified in the following unit groups.

2110	Social Workers
2111	Counsellors, Social Welfare
2119	Other Social Welfare Occupations

Related Occupations  
Unit Group 2101 : Psychologists

2110 SOCIAL WORKERS

This unit group covers occupations concerned with improving the social functioning of individuals and groups within society by intervention in social processes.

**Entry Requirements** a degree or graduate diploma in social work and in some cases up to 3 years related experience.

**Activities include** knowing and understanding the social welfare resources of the community; interviewing clients with a variety of social, personal, economic and health problems; intervening to promote the solution of such problems; encouraging the establishment and development of community services' social action; planning, recommending and administering social policy and the programs to give it effect; and conducting research into social welfare programs and their application to individuals and communities.

2110-A COMMUNITY SOCIAL WORKER

Promotes social action at the community level by encouraging the establishment and development of local services to meet needs; acts as a contact between these services and individuals in need.

Assesses strengths and weaknesses of existing resources related to health, welfare, recreation, housing, employment and other community services. Enlists co-operation of community organisations, social agencies and voluntary groups in improving existing services and in developing new services. Provides leadership and assistance in organising programs to meet community needs. Assists in budget preparation and policy formation. Organises seminars and conferences. Assists in implementation of pilot projects in community development and self-help.

May train social work students specialising in community practice. May specialise in a particular field of social work, such as mental and physical health, ageing, juvenile delinquency, drug addiction, urban renewal or in co-ordinating voluntary agencies.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP4y(D)	IP:
HC: SIA	RQ: L1 P2 U2
<i>Materials</i>	
SM: D2 I2 P1	EQ: V2
<i>Functions</i>	
MA: I1 A2 P2 D2 R3 M3 L1	
PA: C2 S1 W2 E1	SA: S1 I2 P1

<i>Context</i>	
EC: M2 L1	TC: A1 I2 T2
SS: 7	SC: I0 (12y)
LMS: 2000-2500(0 %SE)	
Asic: Many,83	

2110-B SOCIAL CASE WORKER

Helps individuals and/or families to use personal and community resources more effectively in adjusting to the demands of the social environment.

Interviews clients with problems such as personal, social and family adjustments, employment, finance and physical and mental impairments to determine nature, extent and causes of problems. Evaluates information obtained to determine the type of assistance needed and intervenes where appropriate to improve their social functioning. Refers client to community and other agencies. Follows progress after immediate problems are overcome. Compiles case records and reports.

May collaborate with other professionals on cases. May specialise in a particular area of social work such as family welfare, child welfare, delinquency, migrant welfare, or psychiatric or medical-social work. May work with groups of people experiencing social stress to help the individuals cope by encouraging mutually supportive interaction by the group.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP4y(D)	IP:
HC: SIA	RQ: P2 U2
<i>Materials</i>	
SM: D2 P1	EQ:

*Functions*

MA: A1 P2 D2 R2 M3 L1

PA: S1 W2 E1

SA: A2 S1 P1

*Context*

EC: L1

TC: A1 I2

SS: 7

SC: 10 (12y)

LMS: 2000-2500(0 %SE)

Asic: Many,82

**2110-C SOCIAL PLANNER/ADMINISTRATOR**

Plans and implements social policy, administers specific programs and organises and conducts research in respect of social welfare programs and their application.

Analyses trends and distinguishes problems and needs with a view to recommending social welfare policies in specific areas. Translates policies into social action or service delivery programs. Manages the implementation of social welfare policies and programs. Gathers, analyses and presents data on social welfare needs and on the effectiveness of specific programs.

May supervise, train and co-ordinate other staff to carry out programs. May specialise in certain areas of welfare work such as family welfare, the welfare problems of mental illness or of old age.

*Job Content Factors**Workers*

FP: GE12y PSP4y(D)

HC: SIA

IP: E0-3y

RQ: U2

*Materials*

SM: D2 I1 P1

EQ:

*Functions*

MA: I2 A2 P1 D2 R2 M3 L1

PA: S1 E1

SA: A2 S1 P2 R4

*Context*

EC: L1

TC: A1

SS: 9

SC: 10 (8 y)

LMS: 500-1000 (0 %SE)

Asic: Many,82,83

**2110-Z SOCIAL WORKERS nec**

This residual group covers social workers not elsewhere classified in Unit Group 2110.

**2111 COUNSELLORS, SOCIAL WELFARE**

This unit group covers occupations concerned with helping and advising individuals and groups facing social, personal, educational, occupational and rehabilitation problems, and with facilitating decisions of the Family and Children's Courts.

**Entry Requirements** a degree with a major or post-graduate studies in behavioural sciences or counselling techniques; or a degree with appropriate work experience.

**Activities include** counselling individual groups on social, personal, educational, vocational and health-related matters; communication between judges, legal practitioners and parties involved in Family Law Court cases; and implementing rehabilitation provisions of government enactments.

**2111-A COUNSELLOR, GENERAL**

Counsels individuals and groups facing social, personal and related difficulties.

Assists individuals in self-development by obtaining and examining information relevant to their situation and needs. Analyses this information, explains alternatives and suggests possible courses of action. Maintains knowledge of educational, vocational, economic, social and political situations as needed to assist clients.

May specialise in a particular field and be designated accordingly, e.g.

Drug/Alcohol Counsellor  
Marriage Counsellor

Educational Counsellor  
Vocational Counsellor

*Job Content Factors**Workers*

FP: GE12y PSP4y(PG)

or FP: GE12y PSP3y(D)

HC: SEA

IP:

IP: E2-4y

RQ: P2 U2

*Materials*

SM: D2 I2 P1

EQ:

*Functions*

MA: A1 P2 R1 M3 L1

PA: S1 E1

SA: A2 S1 P1

*Context*

EC: L1

TC: A1

SS: 7

SC: 10 (12y)

LMS: 5000-8000(0 %SE)

Asic: Many,82,83

**2111-B FAMILY LAW COURT COUNSELLOR**

Acts between judges and legal practitioners to broaden lines of communication in proceedings before the Family Court of Australia.

Discusses case with persons contemplating divorce or with regard to other matrimonial disputes. Enlists aid of relevant agencies to ensure minimum friction between parties. Gives advice on the circumstances of any particular case to the presiding judge and the legal representatives of the parties involved, as well as to the parties themselves.

*Job Content Factors**Workers*

FP: GE12y PSP3-4y(PG) /(D)

HC: SEC

IP:

RQ: P1 U2 D1

*Materials*

SM: D2 I2 P1

EQ:

*Functions*

MA: A1 P2 D1 R1 M3 L1

PA: S1 W2 E1

SA: A2 S1 P2

*Context*

EC: L1

TC: A1 I2

SS: 6

SC: 10 (6 y)

LMS: 200-300 (0 %SE)

Asic: Many,83

**2111-C REHABILITATION COUNSELLOR**

Implements the provisions of the Commonwealth Social Services Act relating to rehabilitation.

Counsels physically, mentally and socially handicapped persons. Estimates person's capabilities and arranges suitable training after discussion with medical, psychological and other rehabilitation personnel.

May assist persons outside Commonwealth rehabilitation centres. May contact prospective employers. May assist clients with employment placement and conduct follow-up interviews. May specialise in assisting persons from a particular category and be designated accordingly, e.g.

Aboriginal Rehabilitation Counsellor

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(D) IP:  
HC: SIA RQ: L1 P2 U2

#### Materials

SM: D2 I2 P1 EQ: V2

#### Functions

MA: I2 P2 D1 R2 M3 L1  
PA: C2 S1 W2 E1 SA: A2 S1 P1

#### Context

EC: M2 L1 TC: A1 I2  
SS: 8 SC: 9 (7 y)

LMS: 150-200 (0 %SE)

Asic: Many,83

### 2111-Z COUNSELLORS, SOCIAL WELFARE nec

This residual group covers social welfare counsellors not elsewhere classified in Unit Group 2111.

## 2119 OTHER SOCIAL WELFARE OCCUPATIONS

This unit group covers occupations concerned with providing personal services to individuals, families and groups who are socially disadvantaged or otherwise in need.

**Activities include** working as individuals or as members of teams in organising, supervising and conducting social, rehabilitation and other programs for individuals, groups and the wider society; working with agencies and voluntary organisations concerned with social problems; preparing reports of progress of offenders on probation and parole; and providing services to young people.

### 2119-A COMMUNITY WORKER Community Development Officer

Promotes social planning by organising and working with agencies and groups concerned with social problems.

Studies and evaluates resources devoted to health, welfare, recreation, housing, employment, training and other community facilities. Interprets identified needs for community organisations, social agencies and groups; stimulates their interest and enlists co-operation. Provides leadership and co-ordinates programs. Prepares reports; assists with budgeting and policy formation.

#### Job Content Factors

##### Workers

FP: GE11-12y PSP2y(Adip) /(PPC) IP:  
HC: SIC RQ: L1 P2

##### Materials

SM: D2 I2 P1 EQ: V2

##### Functions

MA: I2 A2 D2 R3 M3 L2  
PA: C2 S1 W2 E1 SA: A2 S1 I2 P1

##### Context

EC: M2 L1 TC: A1  
SS: 7 SC: 10 (12y)

LMS: 12500 (0 %SE)

Asic: Many,82

### 2119-B PAROLE OFFICER

Performs duties related to the fulfilment of conditions of release of offenders from correctional institutions.

Establishes relationships with offenders and familiarity with their social history, both before and during detention. Submits reports and recommendations as to whether an offender should be granted parole. Supervises those paroled and advises them on such matters as education, employment, finance, housing and other community services which may help in

rehabilitation. Conducts regular interviews with parolees and reports on progress. Keeps in contact with families of parolees to help solve problems of readjustment and rehabilitation.

#### Job Content Factors

##### Workers

FP: GE11-12y PSP2y(Adip) /(PPC) IP:  
HC: SIC RQ: L1 P2

##### Materials

SM: D2 I2 P1 EQ: V2

##### Functions

MA: I2 P2 D2 R3 L1  
PA: C2 S1 W2 E1 SA: S1 P1

##### Context

EC: M2 L1 TC: A1 I2  
SS: 7 SC: 10 (14y)

LMS: 1000-1500(0 %SE)

Asic: Many

### 2119-C PROBATION OFFICER

Prepares reports for courts and parole boards on social and personal aspects of individual cases due for consideration.

Interviews offenders, their families, employers, teachers etc. to obtain relevant information. Arranges for treatment or placement of offenders, if so directed by the courts. Supervises those who are 'on probation' as an alternative to imprisonment or other penalties.

May assist in determining which cases fall in the jurisdiction of the court system and which should be referred to other agencies. May specialise in work related to adult or juvenile offenders.

#### Job Content Factors

##### Workers

FP: GE11-12y PSP2y(Adip) /(PPC) IP:  
HC: SIC RQ: L1 P2

##### Materials

SM: D2 P1 EQ: V2

<i>Functions</i>	
MA: I2 P2 D2 R3 L1	
PA: C2 S1 W2 E1	SA: S1 P1
<i>Context</i>	
EC: M2 L1	TC: A1 I2
SS: 7	SC: I0 (14y)

LMS: 1000-1500(0 %SE)

Asic: Many

## 2119-D WELFARE OFFICER Social Worker Associate

Provides services to individual or family groups often in association with professional social workers.

Interviews clients to determine nature, extent and cause of difficulties. Gathers information contributing to client's situation. Evaluates information, determines type of assistance necessary, acts accordingly.

May specialise in a particular field of welfare work and be designated accordingly, e.g.

Aboriginal Welfare Officer	Child Welfare Officer
Homemaking Adviser	Mental Health Welfare Officer
Women's Refuge Adviser	Migrant Information Officer

### Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP2y(PPC) /(Adip)	IP:
HC: SER	RQ: L1 P2
<i>Materials</i>	
SM: D2 P1	EQ: V2
<i>Functions</i>	
MA: A2 D2 R3 L2	
PA: C2 S1 W2 E1	SA: S1 P2
<i>Context</i>	
EC: M2 L1	TC: A1 I2
SS: 7	SC: I0 (12y)
LMS: 3000-4000(0 %SE)	
Asic: Many,83	

## 2119-E YOUTH WORKER Youth Leader; Youth Officer

Provides services to young people to help them realise their potential in various areas.

Interviews individuals or groups to determine problems. Collects relevant information and helps and advises accordingly.

May specialise in a certain field of youth work and be designated accordingly, e.g.

Outreach Worker, Youth
Youth Worker, Correctional Institution
Youth Worker, Employment
Youth Worker, Recreation

### Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP2-3y(Adip) /(PPC)	IP:
HC: SE	RQ: P2
<i>Materials</i>	
SM: D2 P1	EQ:
<i>Functions</i>	
MA: I2 D2 R3 L2	
PA: S1 E1	SA: S1 I2
<i>Context</i>	
EC: L1	TC: A1
SS: 9	SC: I0 (10y)
LMS: 1000-2000(0 %SE)	
Asic: Many	

## 2119-F RECREATION OFFICER

Plans, directs and administers comprehensive programs of recreation and leisure time activities for individuals and groups on behalf of government, local government and community service organisations.

Studies and analyses recreation needs and resources. Plans, organises and co-ordinates the provision of recreation facilities and programs. Encourages and assists in the implementation of projects and programs through existing organisations, such as schools, church bodies and youth organisations. Interprets recreation policies and programs to the general public and services inquiries about them. Provides technical and professional advice to urban planners and others concerned with the provision of recreation. Advises on requirement and procurement of new equipment and materials, and on design of new facilities. Prepares or assists with preparation of budgets.

May be involved in the recruitment, training and day-to-day supervision of employed or voluntary recreation or play leaders.

### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(PG)	IP:
HC: SEA	RQ: Q1 U2
<i>Materials</i>	
SM: I2 P1	EQ: S2 N2 W2
<i>Functions</i>	
MA: P1 D2 R3 M3 L2	
PA: C1 H2 W1 B2 E3	SA: S1 L2 I2 P1 R4
<i>Context</i>	
EC: L4	TC: A1
SS: 11	SC: I2 (6 y)
LMS: 1000-2000(0 %SE)	
Asic: Many,83	

## 2119-G STUDENT ACTIVITIES OFFICER Warden, Student Activities

Plans and arranges social, cultural and recreational activities of various student groups.

Meets with student and faculty groups to plan activities. Evaluates programs. Schedules events. Contacts caterers, entertainers, musicians and others as required. Advises on financial matters.

### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3y(D)	IP:
HC: SIC	RQ: U2
<i>Materials</i>	
SM: D2 I1 P1	EQ:
<i>Functions</i>	
MA: I2 P1 D2 R2 M3 L2	
PA: S1 W2 E1	SA: S1 L2 P2
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 12	SC: I2 (vy)
LMS: 200-300 (0 %SE)	
Asic: 82	

## 2119-Z OTHER SOCIAL WELFARE OCCUPATIONS nec

This residual group covers social welfare occupations not elsewhere classified in Unit Group 2119.

MINOR GROUP 212  
LEGAL OCCUPATIONS

Legal Occupations are classified in the following unit groups.

- 2120 Judges, Magistrates and Related Occupations
- 2121 Lawyers
- 2129 Other Legal and Related Occupations

2120 JUDGES, MAGISTRATES AND RELATED OCCUPATIONS

This unit group covers occupations concerned with presiding over judicial proceedings and pronouncing judgments in courts of law.

**Entry Requirements** a degree in law with substantial legal experience.

**Activities include** ruling on the conduct of cases in court; weighing and admitting or rejecting the evidence presented; determining the rights and obligations of parties involved; instructing juries on points of law; pronouncing judgments; passing sentences; and determining damages.

*Related Occupations*

- Occupation 1009-Z : Justice of the High Court
- Occupation 1009-Z : Justice of the Supreme Court

2120-A CORONER

Conducts investigations and hearings into deaths of individuals within areas of jurisdiction prescribed by law.

Orders autopsies to determine cause of accidental, violent, unnatural or unexplained deaths. Presides at inquests to ascertain responsibility; views bodies, procures services of expert witnesses, and examines witnesses under oath. Summons and swears in jurors, if necessary, for inquest proceedings. Authorises disposal of unclaimed bodies and personal effects of deceased, issuing cremation or burial certificate. Confers with officials of health and law enforcement agencies to gather information relating to cases. Writes disposition and statement of findings, proceedings and recommendations for permanent records. Directs personal staff or procures services of trained technicians engaged in conducting autopsies, pathological or toxicological analyses or in gathering data for testimony.

May commit person for trial for the offence of murder or manslaughter and issue warrant for arrest and detainment. May conduct inquests into the cause of fires to determine responsibility.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP4-5y(D) /(PG)	IP: T1y E10y
HC: ISC	RQ: P2 U2 D2
<i>Materials</i>	
SM: D2 P2	EQ:
<i>Functions</i>	
MA: I2 A1 D1 R2 M3 L1	
PA: S1 E1	SA: A2 S1 P1 R4

*Context*

EC: M2 L1	TC: A1 I2
SS: 9	SC: 11 (10y)
LMS: 100-200 (0 %SE)	
Asic: Many	

2120-B JUDGE

Adjudicates civil and criminal cases and administers justice in courts of law.

Interprets and enforces rules of procedure. Reads or listens to allegations and evidence presented by counsel for plaintiff and defendant in civil cases, or for Crown and accused in criminal cases. Weighs and considers evidence and decides legal guilt or innocence or degree of liability of accused or defendant in cases tried without jury. Instructs jury on laws applicable to cases tried by jury. Passes sentence, in accordance with law, on persons convicted in criminal cases, and determines damages or settlements or other remedies, e.g. injunction, declaration in civil cases. Records reasons for judgments. Signs and issues warrants, judgments and orders of committal.

May only sit in specific courts of law and be designated accordingly, e.g.

- Family Court Judge
- High Court Judge
- County Court Judge; District Court Judge
- Federal Court Judge
- Supreme Court Judge

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP4-5y(D) /(PG)	IP: T1y E10-40y
HC: EAS	RQ: P1 U1 D1
<i>Materials</i>	
SM: D2 I1 P1	EQ:

*Functions*

MA: 11 A1 P2 D1 R1 L1

PA: S1 E1

SA: S1 L2 I2 P1 R4

*Context*

EC: T2 L1

TC: A1

SS: 9

SC: 11 (10y)

LMS: 250-300 (0 %SE)

Asic: Many

**2120-C****STIPENDIARY MAGISTRATE****Chief Magistrate; Magistrate; Special Magistrate**

Hears and adjudicates summary matters at law.

Hears arguments and evidence in both civil and criminal summary matters. Evaluates evidence, decides issues, announces findings. Arrives at suitable sentence and announces penalty, e.g. fine, reprimand, confinement; awards damages where appropriate. Jurisdiction restricted by statute which limits penalties that may be imposed; in civil matters can award damages up to a limited amount.

May preside at Children's Court or Coroner's Court.

*Job Content Factors**Workers*

FP: GE12y PSP4-5y(D) /(PG)

IP: E10y

HC: EAS

RQ: P1 U2 D1

*Materials*

SM: D2 I1 P1

EQ:

*Functions*

MA: 11 A2 D1 R2 M3 L1

PA: S1 E1

SA: S1 L2 I2 P1 R4

*Context*

EC: T2 L1

TC: A1

SS: 9

SC: 11 (10y)

LMS: 300-500 (0 %SE)

Asic: Many

**2120-D****MEMBER, ADMINISTRATIVE APPEALS TRIBUNAL**

Receives appeals on and reviews administrative decisions made by Commonwealth ministers, authorities and officials under specified Statutes of the Commonwealth.

Convenes preliminary conferences attempting to resolve the matter. If unsuccessful, orders a full hearing. Hears evidence and argument and rules on questions of procedure. Interprets the law in relation to the case in dispute. Announces findings and decisions. Can confirm the decision in question, or set it aside and substitute another for it.

May, being a qualified legal practitioner enrolled with an appropriate court for not fewer than 5 years' perform higher duties and be designated accordingly, e.g.

Presidential Member, Administrative Appeals Tribunal

*Job Content Factors**Workers*

FP: GE12y PSP3-5y(D) /(PG)

IP: E15y

HC: ESC

RQ: P2 U2 D1

*Materials*

SM: D2 I2 P1

EQ:

*Functions*

MA: 11 A1 D1 R1 L1

PA: S1 E1

SA: S1 L2 P1 R4-3

*Context*

EC: T2 L1

TC: A2 I1

SS: 12

SC: 12 (3 y)

LMS: 500-1000 (0 %SE)

Asic: Many

**2120-E****MEMBER, INDUSTRIAL TRIBUNAL****Conciliation and Arbitration Commissioner**

Acts, alone or as a member of a Full Bench, Commission, Board or other statutory tribunal, as a neutral third party to industrial disputes to help management and unions resolve differences, or may arbitrate on an issue and make an award.

Confers with management and labour representatives separately or collectively to obtain respective attitudes on contentious issues. Acts as a channel of communication between the parties, conducting meetings with them separately. Chairs meetings in efforts to reach mutually acceptable resolution of disputes. Prepares settlement memoranda and obtains signatures of both parties. Keeps up to date with developments in the particular industry or group of industries with which he/she is concerned. Exercises arbitral powers if resolution is not achieved or seems improbable through conciliation.

May call compulsory conferences in efforts to achieve resolution. May hear witnesses called by the parties or by the tribunal and may take evidence on oath or affirmation. May conduct inspections at which the parties are appointed to higher duties and be designated accordingly, e.g.

Chairperson, Industrial Tribunal

Presidential Member, Industrial Tribunal

*Job Content Factors**Workers*

FP: GE12y PSP4-5y(D) /(PG)

IP: E15y

HC: ESC

RQ: P2 U2

*Materials*

SM: D2 I2 P1

EQ:

*Functions*

MA: 11 A1 D1 R1 M3 L1

PA: S1 E1

SA: S1 L2 P1 R4-3

*Context*

EC: T2 L1

TC: A1 T2

SS: 12

SC: 12 (3 y)

LMS: 500-1000 (0 %SE)

Asic: Many

**2120-Z****JUDGES, MAGISTRATES AND RELATED OCCUPATIONS nec**

This residual group covers judges and magistrates not elsewhere classified in Unit Group 2120.

**2121 LAWYERS**

This unit group covers occupations concerned with pleading cases or conducting prosecutions in courts of law, acting on behalf of clients in legal matters, drawing up and certifying legal documents and drafting legislation.

**Entry Requirements** a degree in law, completed articles of clerkship or its approved equivalent, and/or admission to the appropriate court of law.

**Activities include** examining circumstances and determining applicable law by studying codes, statutes, previous decisions and established regulations; advising clients of their legal rights and obligations in such matters as the purchase and sale of land, the disposition of other property by will or otherwise, family relations, labour relations, business arrangements, including corporate structures and financing; and revising Statute Law.

### 2121-A BARRISTER Counsel

Specialises in advocacy and the conduct of cases before civil, criminal and industrial courts and other tribunals, in giving advice and written opinions on points of law, and in drawing pleadings, affidavits and other court documents.

Receives written information (brief) concerning case in question. Confers with client and witnesses, researches statutes and previous court decisions relevant to case. Outlines facts to court, calls and questions witnesses, makes final address to court. Acts as adviser to solicitors' clients, gives opinions on complex questions of law and draws up or settles complex documents. Deals directly with client or through solicitor.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP4-5y(D) /(PG)	IP: T1y
HC: EAS	RQ: S1 P2 U1 D1
<i>Materials</i>	
SM: D2 I1 P1	EQ:
<i>Functions</i>	
MA: I1 A1 P2 D1 R1 L1	
PA: S1 E1	SA: A2 S1 P1 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 9	SC: I1 (10y)
LMS: 5000-8000(15%SE)	Asic: 637,71

### 2121-B CORPORATE LEGAL OFFICER

Performs legal work on behalf of a business or government organisation by whom he/she is employed.

Provides legal advice to the organisation in relation to commercial, conveyancing, industrial and other legal matters. Briefs barristers in appropriate cases. Maintains contact with outside law firms.

May communicate with governments and local councils on behalf of his/her employer.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP4-5y(D) /(PG)	IP: T1y
HC: EAS	RQ: U1
<i>Materials</i>	
SM: D2 I1 P2	EQ:
<i>Functions</i>	
MA: I1 A1 D2 R2 M3 L1	
PA: S1 E1	SA: A2 S1 P2 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 9	SC: I1 (10y)
LMS: 1000-1500(0 %SE)	Asic: Many

### 2121-C PARLIAMENTARY COUNSEL

Performs, on behalf of a government, various legal duties connected with parliamentary legislation.

Drafts public bills promoted by the government; attends during consideration of such bills in committee; gives expert advice on the legal implications of amendments; couches agreed alterations in correct legal form; advises government on legal, constitutional and parliamentary matters; assists in the revision of Statute Law.

May appear in court on behalf of a government.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP4-5y(D)	IP: T1y
HC: EAS	RQ: U1 D1
<i>Materials</i>	
SM: D1 I2 P2	EQ:
<i>Functions</i>	
MA: I1 A1 P2 D1 R1 L1	
PA: S1 W2 E1	SA: A2 S1 L2 R4
<i>Context</i>	
EC: L1	TC: A1 T2
SS: 9	SC: I1 (10y)
LMS: 500-1000 (0 %SE)	Asic: Many

### 2121-D SOLICITOR

On behalf of clients handles the legal aspects of personal and business problems.

Prepares cases for court by carrying out investigations, arranging for witnesses to attend and gives notice of court action to the opposing party. If warranted, appears for clients in lower courts or briefs barrister (usually in cases before superior courts). Handles dealings in property, such as sale and purchase of land, the drafting of leases and the arrangements of mortgages. Draws up wills and if appointed acts as executor of client's will to ensure that possessions of deceased person are distributed according to his/her wishes. Gives legal advice, draws documents and conducts negotiations on problems associated with injury, business, employment, domestic affairs, the environment, civil and municipal rights. Acts for clients in criminal matters.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP4-5y(D) /(PG)	IP: T1y
HC: EAS	RQ: S1 U1 D1
<i>Materials</i>	
SM: D2 I2 P1	EQ:
<i>Functions</i>	
MA: I1 A1 P2 D1 R1 M3 L1	
PA: S1 E1	SA: A2 S1 P1
<i>Context</i>	
EC: L1	TC: A1
SS: 9	SC: I1 (10y)
LMS: 16000 (10%SE)	Asic: 63,71

### 2121-Z LAWYERS nec

This residual group covers lawyers not elsewhere classified in Unit Group 2121.

## 2129 OTHER LEGAL AND RELATED OCCUPATIONS

This residual unit group covers occupations, not elsewhere classified, concerned with the application of principles related to Common Law and to Statute and Civil Law and its administration.

**Activities include** performing duties of a Solicitor on a progressive basis according to a training schedule; performing clerical and administrative functions in courts; keeping order in the various courts and hearing rooms, and swearing in jury and witnesses; enforcing laws through service or execution of processes of courts; acting for inventors and others seeking to establish or maintain protection for industrial property such as inventions, trade marks and industrial designs; and examining patent applications to establish the adequacy of their descriptions and their novelty.

### 2129-A ARTICLED CLERK

Under supervision, performs duties of a solicitor on a progressive basis according to a training schedule, for a prescribed period of time, usually one year. An articulated clerk does not have a right of audience before courts.

#### Job Content Factors

##### Workers

FP: GE12y PSP4-5y(D)

IP:

HC: EAS

RQ: U1 D1

##### Materials

SM: D2 I2 P1

EQ:

##### Functions

MA: I1 A1 P2 D1 R1 M3 L1

PA: S1 E1

SA: A2 S1 P2

##### Context

EC: L1

TC: A1

SS: 6

SC: 8 (5 y)

LMS: 16000 (0 %SE)

Asic: 637,71

### 2129-B COURT REGISTRAR

Clerk of the High Court; Prothonotary

Acts on behalf of, and assists, the justices of higher courts in administrative matters.

Supervises staff in the maintenance of court records, interprets court rules for staff and public, and prepares and administers court budgets. Attends to the issuing, and filing in court records, of documents prepared for trial. Supervises listing procedures. Attends court and assists court officials as required.

May advise interested parties on matters of jurisdiction, practice and procedure. May invest and distribute funds paid into court for the benefit of persons entitled thereto.

#### Job Content Factors

##### Workers

FP: GE12y PSP4-5y(D)

IP: T1y

HC: ESC

RQ: U2 D1

##### Materials

SM: D1 T2

EQ:

##### Functions

MA: I1 A1 P1 D1 R2 M3 L1

PA: S1 W2 E1

SA: S1 L2 I2 R2-3

##### Context

EC: L1

TC: A1

SS: 6

SC: 8 (vy)

LMS: 500-1000 (0 %SE)

Asic: Many

### 2129-C MASTER, COURT

Performs administrative functions in some superior courts.

Lists and presents cases for hearing, decides contested applications prior to trial, assesses damages, taxes bills of costs and related delegated duties. Deals with procedural issues arising during preparation of a civil case for trial.

#### Job Content Factors

##### Workers

FP: GE12y PSP4-5y(D) /(PG)

IP: T1y E1-4y

HC: ESC

RQ: U2 D1

##### Materials

SM: D1 I2 P2

EQ:

##### Functions

MA: I1 A2 P1 D2 R2 M3 L1

PA: S1 E1

SA: A2 S1 R4

##### Context

EC: L1

TC: A1

SS: 9

SC: 10 (3 y)

LMS: 200-300 (0 %SE)

Asic: Many

### 2129-D BAILIFF

Sheriff Bailiff; Sheriff Officer

Serves legal orders and documents, and seizes or repossesses property as an officer of the court.

Follows directions of the sheriff and delivers summonses, subpoenas and other legal orders and documents. Locates, seizes and removes property under order of court or with consent of debtor.

#### Job Content Factors

##### Workers

FP: GE10-11y

IP: E5y

HC: ESC

RQ: L1 P2

##### Materials

SM: D1 P2 T2

EQ: V2

##### Functions

MA: D3 R4 M3 L2

PA: C2 H2 S2 W1 E3

SA: A2 S1 I2

##### Context

EC: M2 L3

TC: A1 I2

SS: 8

SC: 8 (3 y)

LMS: 200-300 (0 %SE)

Asic: Many

### 2129-E

CLERK OF COURT

Clerk of Local Court; Clerk of Magistrate's Court; Clerk of Petty Sessions; Magistrate's Clerk

Provides administrative services to a Magistrate's or

equivalent Court.

Authenticates the initiation of court actions in the civil and criminal jurisdictions. Receives court actions in criminal and civil jurisdictions and lists them for hearing by the court. Collects monies and maintains court records. Advises the public and justices of the peace on points of law and practice. Opens the court and swears in witnesses and maintains order in the courtroom.

May be appointed Deputy Registrar of the District Court (in Western Australia). May perform duties of Registrar of Births, Deaths and Marriages. May perform duties of Mining Registrar or act as agent for various government departments.

#### Job Content Factors

##### Workers

FP: GE12y IP: E1-5y  
HC: ESC RQ: U2 D1

##### Materials

SM: D1 P1 EQ:

##### Functions

MA: D2 R3 M3 L2  
PA: S1 E1 SA: S1 L2 I2 R4

##### Context

EC: L1 TC: A1  
SS: 7 SC: I0 (11y)

LMS: 500-750 (0 %SE)

Asic: Many

### 2129-F COURT ORDERLY Court Attendant; Tipstaff; Usher (Court)

Keeps order in the various courts and hearing rooms, and swears in jury and witnesses.

Maintains order in court/hearing rooms and in the adjacent public and waiting areas. Announces cases and calls witnesses. Opens court and hearing rooms each morning; ensures court lists have been posted on notice boards; arranges furniture to meet requirements for each court/hearing room. Allocates rooms for use by members of legal profession. Delivers to chambers all court files, transcripts and mail. Records file movements and notifies appropriate Registry; assists with counter inquiries when necessary.

May be designated tipstaff or usher and act as personal assistant to a judge; in this case duties are determined by individual judge.

#### Job Content Factors

##### Workers

FP: GE10y IP: E2y  
HC: ESC RQ: D2

##### Materials

SM: D2 P1 EQ:

##### Functions

MA: D3 R4 L3  
PA: S2 W1 E3 SA: S1 L2 I2

##### Context

EC: L1 TC: A1  
SS: 8 SC: 8 (3 y)

LMS: 1000-2000(0 %SE)

Asic: Many

### 2129-G JUDGE'S ASSOCIATE

Assists judge in clerical capacity in court-related activities.

Maintains correspondence of the judge, acting as a confidential clerk, keeps record of appointments and advises judge of these requirements. Looks after exhibits of the courts and is responsible for checking court documents for signature of judge.

May act as contact for persons requiring personal interview with judge. If qualified, may carry out research for judge.

#### Job Content Factors

##### Workers

FP: GE11-12y IP: E5y  
HC: ESC RQ: U2 D1

#### Materials

SM: D1 P2 EQ:

#### Functions

MA: I2 P2 D3 R3 M3 L2  
PA: S1 W2 E1 SA: S1 I2

#### Context

EC: L1 TC: A1  
SS: 8 SC: I0 (4 y)

LMS: 250-300 (0 %SE)

Asic: Many

### 2129-H SHERIFF Marshal

Enforces laws through service or execution of processes of courts.

Serves summonses and subpoenas and enforces court orders, such as evictions and seizures of property. Administers jury roster. Escorts prisoners to and from courtroom or from one prison to another and ensures safety and security of prisoners. Maintains order in courtroom. Keeps disposition records of court processes served.

May supervise and assign duties to clerical and other personnel in sheriff's office.

#### Job Content Factors

##### Workers

FP: GE11-12y IP: E5y  
HC: ESC RQ:

##### Materials

SM: D1 P1 T2 EQ:

##### Functions

MA: P2 D2 R3 L3  
PA: S2 W1 E2 SA: S1 L2 I2 R4-3

##### Context

EC: L1 TC: A1  
SS: I0 SC: I0 (2 y)

LMS: 500-750 (0 %SE)

Asic: Many

### 2129-I PATENT ATTORNEY

Acts for inventors and others seeking to establish or maintain protection for industrial property, such as inventions, trade marks and industrial designs, by processing applications, briefing legal practitioners for opinions and litigation, and assisting with exploration of benefits of protection.

Advises inventors and others seeking to patent inventions and register trade marks and industrial designs. Examines client's drawings, descriptions and models to assess suitability for protection. Searches and investigates prior disclosures to determine novelty and originality. Prepares patent specifications and drawings in respect of inventions. Appears for clients in hearings at Patents, Trade Marks and Designs Offices. Maintains and services existing patents and registrations. Advises and assists clients on various matters concerned with patents, trade marks and industrial designs including exploitation, licensing, questions of validity and infringement, rights under copyright and trade practices legislation, and on conduct of disputes with other parties. Briefs and confers with legal counsel for opinions and advice and briefs legal practitioners for litigation in appropriate courts and tribunals in respect of industrial property matters.

#### Job Content Factors

##### Workers

FP: GE12y PSP3-4y(D) /(PG) IP: T6m  
HC: EIC RQ: U1

##### Materials

SM: D1 I2 P2 T1 EQ:

##### Functions

MA: I2 A1 D1 R1 M2 L1  
PA: S1 E1 SA: A2 S1 P1 R4-3

##### Context

EC: L1 TC: A1  
SS: I0 SC: I2 (10y)

LMS: 240-300 (10%SE)

Asic: Many

2129-J PATENT EXAMINER

Examines patents applications to establish the adequacy of their descriptions and their novelty.

Examines applications received by Patents Office relating to inventions in his/her field of specialisation; studies plans, drawings, specifications and other information provided and obtains further information as necessary from applicant or his/her agent. Establishes principles involved and searches existing patent specifications to assess originality of subject of application. prepares reports on the technical and legal aspects of the application and makes recommendations regarding award of patent rights.

Job Content Factors

Workers	
FP: GE12y PSP3-4y(D)	IP: T6m
HC: EIC	RQ: U1
Materials	
SM: D1 I2 T1	EQ:

Functions	
MA: I2 A1 D2 R2 M2 L2	
PA: S1 E1	SA: A1 S2 P1
Context	
EC: L1	TC: A1
SS: 7	SC: 10 (10y)
LMS: 200-300 (5 %SE)	Asic: Many

2129-Z LEGAL AND RELATED OCCUPATIONS  
nec

This residual group covers occupations concerned with the application of principles related to Common, Statute and Civil Law and administration of them, not elsewhere classified in Unit Group 2129, e.g.

- Executive Officer, Legal Professional Body
- Research Officer, High Court of Australia
- Registrar, Industrial Tribunal
- Community Justice Centre Mediator

## MINOR GROUP 213

### MUSEUM, LIBRARY AND ARCHIVES OCCUPATIONS

Museum, Library and Archives Occupations are classified in the following unit groups.

- 2130 Museum and Art Gallery Occupations (Professional)
- 2131 Museum Technicians
- 2132 Librarians (Professional)
- 2133 Library Technicians
- 2139 Other Museum, Library and Archives Occupations

#### 2130 MUSEUM AND ART GALLERY OCCUPATIONS (PROFESSIONAL)

This unit group covers occupations concerned with developing, organising and maintaining systematic collections of specimens, artefacts and art works and with making them available for research, educational or cultural purposes.

**Entry Requirements** a degree/diploma in science, fine art or other appropriate discipline.

**Activities include** establishment, presentation and care of museum and art gallery collections; preparing and arranging collections for educational, cultural and research purposes; and recording and conservation of the objects of the collection.

#### 2130-A CURATOR, MUSEUM/ART GALLERY DEPARTMENT

Co-ordinates the establishment, presentation, care and custody of a collection in a museum or art gallery for research, educational or cultural purposes and administers the activities of its staff.

Establishes contacts with scientists, art historians, institutions and other organisations to exchange scientific, educational or cultural information and data. Organises, maintains and documents a collection. Conducts research on new and existing acquisitions. Prepares or co-ordinates preparation of articles for scientific or cultural publications and seminars. Recommends purchase or collection of items for collections and for improving educational and research facilities. Organises display projects by deciding on general theme of display, approving story line, and displaying artefacts, specimens, paintings, art objects, and models in consultation with appropriate department heads, artists and technicians.

May organise expeditions or field parties engaged in research or discovery. May undertake personal research in field of specialisation and publish findings in appropriate scientific or cultural journals or papers. May assess historical significance and monetary value of items offered to museum. May be concerned with a particular specialisation and be designated accordingly, e.g.

- Curator, Agricultural Science
- Curator, Anthropology
- Curator, Australian Paintings

- Curator, Contemporary Art
- Curator, Ethnographic Art
- Curator, History
- Curator, Numismatics
- Curator, Geology
- Curator, Industrial Science
- Curator, Zoology

#### *Job Content Factors*

##### *Workers*

FP: GE12y PSP3y(Dip) /(D)	IP: T2m
HC: ESA	RQ: U1

##### *Materials*

SM: D1 I2 P2 T1	EQ:
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##### *Functions*

MA: I1 P2 D2 R2 M2 L1	SA: A2 S1 I2 R4-3
PA: P2 U1 H2 S2 W1 E2	

##### *Context*

EC: L1	TC: A1
SS: 7	SC: 10 (12y)

LMS: 50-100 (0 %SE)

Asic: 825

#### 2130-Z MUSEUM AND ART GALLERY OCCUPATIONS (PROFESSIONAL) nec

This residual group covers professional museum and art gallery occupations not elsewhere classified in Unit Group 2130, e.g.

- Conservator
- Education Officer (Museum and Art Gallery)
- Exhibitions Officer (Museum and Art Gallery)
- Museum Registrar
- Publications Officer (Museum and Art Gallery)

### 2131 MUSEUM TECHNICIANS

This unit group covers occupations concerned with performing specialised tasks usually in direct support of curators and other professional staff in museums and art galleries.

**Entry Requirements** a para-professional certificate or associate diploma in an appropriate specialisation.

**Activities include** assisting in research projects; identifying and analysing collections of specimens, artefacts and art works; assisting in the conservation and restoration of such items as paintings, animal remains and artefacts; preparing exhibitions and displays; and assisting in the preparation of written material or drawings for exhibits or displays.

#### 2131-A MUSEUM TECHNICIAN Preparator

Prepares specimens, artefacts and artworks for collections and constructs and arranges museum and art gallery exhibits.

Cleans rock matrix from fossil specimens, moulds and restores skeletal parts, constructs skeletal mounts, reassembles fragmented specimens and fabricates substitute pieces. Constructs scale models, makes castings or moulds of artefacts for display purposes. Mounts and prepares objects for display. Designs and constructs, or supervises the construction of, exhibit furnishings, display cases and display areas. Sets up lighting and appropriate display equipment. Receives, ships, packs and unpacks exhibits or supervises other workers in the performance of these duties. Constructs protective containers for travelling exhibits. Maintains museum files. Cleans, catalogues, labels and stores specimens.

#### Job Content Factors

##### Workers

FP: GE11y PSP2-3y(Adip) /(PPC) IP: T2m  
HC: ESC RQ: U2

##### Materials

SM: D1 P2 T1 EQ: P1 S1 N2

##### Functions

MA: I1 D2 R4 M3 L3  
PA: P2 U2 H2 S1 W2 E2 SA: A2 S1 I2

##### Context

EC: L1 TC: A1  
SS: 4 SC: 7 (14y)

LMS: 150-300 (0 %SE)

Asic: 825

### 2132 LIBRARIANS (PROFESSIONAL)

This unit group covers occupations concerned with organising, retrieving and packaging information for a variety of end users.

**Entry Requirements** a degree in librarianship, or in an appropriate discipline with a graduate diploma in librarianship.

**Activities include** developing, organising and maintaining systematic collections of books, films and other recorded materials; establishing inter-library and other information networks; conducting or assisting others to conduct on-line searches of data bases; designing and establishing index systems; and assisting users with library services.

#### Related Occupations

Occupation 2301-F : Primary School Teacher, Librarian  
Occupation 2302-H : Secondary School Teacher, Librarian

#### 2132-A LIBRARIAN

Develops, organises and maintains a collection of recorded information in accord with the needs of the community served by the library, and provides an information service for users

based on the collection itself and on available information

networks.

Acquires, or recommends for acquisition, books, periodicals, audio-visual material and other sources of information for inclusion in a library collection. Organises the library collection by classifying and cataloguing material according to significant data. Designs and evaluates indexing systems, and prepares indexes, bibliographies, reading guides and other finding aids. Explains to clients their use in locating specific information. Assists or instructs clients in the conduct of on-line searches of data bases.

May supervise library technicians and clerical staff. May specialise in a particular aspect of librarianship and be designated accordingly, e.g.

Bibliographer	Cataloguer
Information Officer (Library)	Librarian, Children's
Librarian, Music	Librarian, Reference

### Librarian, Special

#### Job Content Factors

##### Workers

FP: GE12y PSP3-4y(D) /(PG)

IP: T2m

HC: SAI

RQ: U1 V1

##### Materials

SM: D1 P2

EQ: K2

##### Functions

MA: I2 A2 D2 R3 M3 L1

PA: U1 H1 S2 W1 E2

SA: S1 I2 P2 R4

##### Context

EC: L1

TC: A1 I2

SS: 7

SC: 10 (10y)

LMS: 4000-4500(0 %SE)

Asic: 825,711,712

## 2133 LIBRARY TECHNICIANS

This unit group covers occupations concerned with performing specialised tasks, usually in direct support of librarians.

**Entry Requirements** a para-professional/associate diploma qualification in librarianship.

**Activities include** maintaining specified procedures for the handling of books, materials and files; operating and maintaining equipment; and maintaining established systems.

### 2133-A LIBRARY TECHNICIAN

Assists in developing, organising and maintaining a collection of library material, using specific library-oriented skills and general background knowledge to perform any combination of the following tasks.

Supervises the receipt of new materials and maintains appropriate records. Searches for and verifies bibliographic data. Files catalogue cards. Catalogues duplicates, new editions and periodicals. Registers borrowers, explains lending procedures, keeps records of borrowings and handles overdue loans. Assists the librarian with inquiries. Maintains and assists users to operate audio-visual equipment and material. Produces publicity and display materials, sets up library displays, operates reprographic equipment, and checks edit lists for data processing.

May supervise library attendants and clerical staff.

#### Job Content Factors

##### Workers

FP: GE11y PSP -2y(Adip) /(PPC)

IP: T2m

HC: ICR

RQ: U2 V2

##### Materials

SM: D1 P2

EQ: S2

##### Functions

MA: I2 D3 R4 L2

PA: U2 H2 S2 W1 E2

SA: S1 I2 R4

##### Context

EC: L1

TC: A1 I2

SS: 4

SC: 8 (12y)

LMS: 1800-2500(0 %SE)

Asic: 825,711,712

## 2139 OTHER MUSEUM, LIBRARY AND ARCHIVES OCCUPATIONS

This residual unit group covers museum, library and archives occupations not elsewhere classified in Minor Group 213.

**Activities include** ensuring safe-keeping of records and regulating access to them.

### 2139-A ARCHIVIST

Appraises, plans disposal of, and receives transfers of records in a designated category; arranges and describes the records and ensures their safe-keeping for as long as is necessary; regulates and services access to them by the depositor and

others.

Preserves records of any form maintained by governments, private organisations and individuals for legal, administrative, informative or historical purposes. Undertakes appraisals based on knowledge of administrative and historical context of

the records and understanding of their organisation and control; prepares instructions authorising destruction or retention. Surveys records held by agencies and individuals and negotiates for their transfer to archival custody. Arranges or directs arrangement of records after analysis of their administrative origin and order. Prepares administrative histories and compiles finding aids such as guides, inventories and indexes to facilitate reference and research use. Assists users in the use of these aids and in interpretation of the records; provides reference services; informs users on the range and availability of material. Administers access provisions laid down by legislation, agency regulation or depositor's direction. Selects documents for reproduction and publication, and edits microfilm and other copies. Arranges public displays of documents. Directs processes for conservation and restoration of records. Directs destruction of records designated as of non-permanent value after an appropriate period of retention.

May write papers for research journals or other publications.

#### *Job Content Factors*

##### *Workers*

FP: GE12y PSP3-4y(PG) /(D)

IP:

HC: IEC

RQ: U2

##### *Materials*

SM: D1 P2 T2

EQ: K2

##### *Functions*

MA: I1 A2 D2 R2 M3 L1

PA: H2 S1 W2 E1

SA: A2 S1 P2 R4

##### *Context*

EC: L1

TC: A1

SS: 4

SC: 9 (11y)

LMS: 1800-2500(0 %SE)

Asic: 825,711

#### **2139-Z**

#### **MUSEUM, LIBRARY AND ARCHIVES OCCUPATIONS nec**

This residual group covers museum, library and archives occupations not elsewhere classified in Unit Group 2139.

## **MAJOR GROUP 22**

### **RELIGIOUS OBSERVANCE OCCUPATIONS**

Religious Observance Occupations are classified in the following minor group.

220 Religious Observance Occupations

# RELIGIOUS OBSERVANCE OCCUPATIONS

## 220 RELIGIOUS OBSERVANCE OCCUPATIONS

### 2200 MINISTERS OF RELIGION

2200-A Minister (Christian)  
2200-B Rabbi  
2200-Z Ministers of Religion nec

### 2209 OTHER RELIGIOUS OBSERVANCE OCCUPATIONS

2209-A Nun/Monk  
2209-B Religious Education Worker  
2209-C Student Minister  
2209-Z Religious Observance Occupations nec

## MINOR GROUP 220 RELIGIOUS OBSERVANCE OCCUPATIONS

Religious Observance Occupations are classified in the following unit groups.

- 2200 Ministers of Religion  
2209 Other Religious Observance Occupations

### 2200 MINISTERS OF RELIGION

This unit group covers occupations concerned with providing motivation, leadership and religious training for the spiritual life of congregations or communities with religious faiths.

**Entry Requirements** a degree, diploma or associate diploma involving vocational training in religious practice.

**Activities include** conducting services of public worship; administering sacraments; supervising and conducting individual and family counselling and visits; maintaining religious traditions; supervising religious education and performing other functions associated with the practice and exposition of a religious faith.

#### 2200-A MINISTER (CHRISTIAN) Clergyman/woman

Provides motivation, guidance and training in religious life for the people of a christian congregation, parish or community, by performing any combination of the following duties.

Prepares and conducts services of public worship and administers sacraments in accordance with the accepted rite, order, rule or ceremonial requirements of the respective denomination. Plans the services. Prepares and delivers sermons, homilies and special talks. Plans music for services in association with the organist or choral director. Participates in the humanitarian, social service and welfare activities of a community and encourages people to be aware of their social and political responsibilities. Works with groups of all ages, conducting classes of religious instruction and organising participation in community projects. Supervises prayer and discussion groups, retreats and seminars. Conducts pre-marital and family counselling. Refers people with special problems to the appropriate professional agencies. Visits church members in their homes, hospitals or other institutions to provide advice or religious comfort to those with problems or illness. Performs marriages according to ecclesiastical and civil law. Conducts funeral and special memorial services for the deceased. Shares the administrative and financial operation of the parish or congregation with selected lay people. Keeps records as required by civil or church law.

May specialise in areas other than parochial or congregational work, such as national or overseas missions, chaplaincies in the armed forces, educational institutions, industries, prisons or hospitals. May give courses of religious instruction in government schools, when authorised by state law. May guide, administer and provide instruction to private schools which are part of his/her congregation. May be designated variously according to function and faith or denomination, e.g.

Chaplain	Pastor
Priest	Salvation Army Officer

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(D)	IP:
or FP: GE12y PSP3y(Dip)/(Adip)	IP:
HC: SAI	RQ: L1 P1 Q2 D1

##### Materials

SM: D2 I1 P1	EQ: V2
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##### Functions

MA: I2 P2 D2 R3 L1	
PA: C2 S1 W2 E1	SA: A2 S2 L2 I2 P1 B2 R4

##### Context

EC: T2 M2 L1	TC: A1 I2 T2
SS: 1	SC: 4 (vy)

LMS: 10000 (0 %SE)

ASIC: 83

#### 2200-B RABBI

Acts as a spiritual leader of a synagogue to serve the religious, educational, spiritual and pastoral needs of its membership, by performing any combination of the following duties.

Directs the Jewish education of the congregation, participates in humanitarian, social service, and anti-defamation activities in the Jewish community by example and leadership. Contributes to Jewish scholarship through study of the sources of Jewish tradition in the Hebrew, Aramaic and Yiddish languages. Officiates at specific ceremonies, for example, circumcision, naming and barmitzva in accordance with the traditions of either the Orthodox, Liberal or Reform branches of Askenazic Judaism or of Sephardic Judaism. Supervises and conducts daily, morning and evening religious services including Sabbaths and festivals. Prepares and conducts discourses on the Talmud, and Jewish traditional sources of law and literature. Takes part in inter-faith activities and gives advice to local community committees when relations between Jewish and non-Jewish communities are discussed. Visits the sick or infirm in their homes or hospitals. Counsels members of his congregation and others who are confined in institutions. Conducts pre-marital and

family counselling. Acts for the congregation as final arbiter in the matter of deciding points arising from the whole body of Jewish religious law. Performs marriages and conducts funeral services in accordance with Jewish custom and counsels on traditions of mourning and bereavement.

May provide advice to Jewish and non-Jewish parties on matters related to the interpretation of the Old Testament and the Scriptures. May act, on a full-time basis, with other Rabbis, as a judge on matters of Jewish law, within a Jewish ecclesiastical court.

#### Job Content Factors

##### Workers

FP: GE12y PSPvy(D)  
HC: SA1

IP:  
RQ: L1 P1 Q2 D1

#### Materials

SM: D2 I1 P1

EQ: V2

#### Functions

MA: I2 P2 D2 R3 L1

PA: C2 S1 W2 E1

SA: A2 S2 L2 I2 P1 B2 R4

#### Context

EC: T2 M2 L1

TC: A1 I2 T2

SS: 4

SC: 10 (vy)

LMS: 500 (0 %SE)

ASIC: 83 &

**2200-Z**

**MINISTERS OF RELIGION nec**

This residual group covers ministers of religion not elsewhere classified in Unit Group 2200.

## 2209 OTHER RELIGIOUS OBSERVANCE OCCUPATIONS

This residual unit group covers occupations concerned with providing direct support to ministers of religion not elsewhere classified in Minor Group 220.

**Activities include** assisting at services of public worship and religious rites, providing religious education and counselling individuals and families. Religious leaders and teachers of religions other than Christianity and Judaism are also classified in this unit group.

### 2209-A NUN/MONK

Activities include prayer, meditation and reading, for the purposes of personal and community spiritual development.

May perform general domestic duties within place of residence. May engage in part-time activities such as visiting the sick and other welfare work.

#### Related Occupations

Minor Group 211 : Social Welfare Occupations  
Minor Group 230 : School Teaching Occupations  
Minor Group 241 : Other Medical Assisting Occupations

#### Job Content Factors

##### Workers

FP: GE10-12y  
HC: SA1

IP: T3-7y  
RQ: P1 Q2 D2

##### Materials

SM: D2 I1 P2

EQ:

##### Functions

MA: A2 D3 R3 L2

PA: S1 W2 E2

SA: A2 S2 I2

##### Context

EC: L1

SS: 0

TC: A1 I2

SC: 0 (na)

LMS: NA (0 %SE)

ASIC: 82,83

### 2209-B RELIGIOUS EDUCATION WORKER

Plans, organises and supervises religious education programs designed to promote religious education among church members.

Develops and plans study courses, or long-range comprehensive religious/education programs, in conjunction with the minister or religious advisory committee to promote religious education training. Develops course curricula to meet the needs of each age group falling within his or her responsibility. Recruits suitable teachers and group leaders, and supervises their training courses. Promotes participation

in extracurricular church activities including camps, church youth groups and the running of programs to assist disadvantaged persons in the community. Visits homes of church members to solicit their support and participation, and to stimulate interest, in religious education programs. Maintains contact with other youth workers and fellowship groups to develop new concepts of religious education. Orders supplies needed for each age group for activities, such as arts, crafts, music and religious studies.

May work on special mission or denominational programs for individual churches, dioceses and conferences. May provide counselling on religious and social matters and refer people with special problems to appropriate professional agencies. May sit on government or private committees dealing with social and religious issues. May be invited to assist or to speak to social and cultural organisations and clubs. May supervise the duties of other religious education workers. May be appointed to a particular area of responsibility and be designated accordingly, e.g.

Children's Officer (Religious)  
Parish Assistant  
Director of Religious Education

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(D)  
HC: SEA

IP:  
RQ: P2 U2 D2

##### Materials

SM: D2 I2 P1

EQ:

##### Functions

MA: A2 D2 R3 L2

PA: S1 W2 E2

SA: B2 I1 R4

##### Context

EC: L1

SS: 3

TC: A1

SC: 6 (vy)

LMS: NA (0 %SE)

ASIC: 83

**2209-C**

**STUDENT MINISTER  
Seminarian**

Undertakes a set course of study/experience designed to equip

one for the task of ministry.

Job Content Factors

Workers	
FP: GE10-12y	IP:
HC: SA1	RQ: L1 P1 Q2 D2
Materials	
SM: D2 I2 P1	EQ:
Functions	
MA: A2 D2 R3 L2	
PA: S1 W2 E1	SA: A2 L1 I1
Context	
EC: T2 M2 L1	TC: A1 I2
SS: 0	SC: 0 ( 0y)
LMS: 1000 (0 %SE)	ASIC: 83

2209-Z

RELIGIOUS OBSERVANCE  
OCCUPATIONS nec

This residual group covers workers in religion not elsewhere classified in Minor Group 220, for example, those who are members of religious orders, societies and churches whose activities include visiting the sick and needy to provide minor welfare services for them; assisting members of the clergy in religious ceremonies; organising and conducting religious meetings; giving religious instruction to prepare candidates for acceptance by a religious body; preaching; evangelism; promoting social activities and acting as part-time youth leader. They are designated accordingly, e.g.

Acolyte	Cantor
Chazan	Deacon/Deaconess
Evangelist	Missionary
Mohel	Pastoral Worker

## **MAJOR GROUP 23**

### **TEACHING AND RELATED OCCUPATIONS**

Teaching and Related Occupations are classified in the following minor groups.

- 230 School Teaching Occupations
- 231 Technical and Further Education Teaching Occupations<sup>1</sup>
- 232 Higher Education Teaching and Related Occupations<sup>2</sup>
- 233 Teaching Services Occupations

<sup>1</sup> Technical and further education refers to all post-school courses other than those accredited as advanced education courses and those offered by universities.

<sup>2</sup> Higher education refers to all post-school courses accredited as advanced education courses and those offered by universities.

#### *Related Occupations*

Major Group 10 : Managerial and Administrative Occupations

N.B. Those engaged in teaching occupations which do not involve teaching in mainstream primary, secondary or tertiary educational institutions are classified in the major group relevant to their area of expertise.

# 23 TEACHING AND RELATED OCCUPATIONS

## 230 SCHOOL TEACHING OCCUPATIONS

### 2300 PRE-PRIMARY SCHOOL TEACHERS

2300-A Pre-primary School Teacher

### 2301 PRIMARY SCHOOL TEACHERS

2301-A Infant School Teacher  
2301-B Primary School Teacher  
2301-C Primary School Teacher, Arts and Crafts  
2301-D Primary School Teacher, Music  
2301-E Primary School Teacher, Physical Education  
2301-F Primary School Teacher, Librarian

### 2302 SECONDARY SCHOOL TEACHERS

2302-A Secondary School Teacher, Academic Subjects  
2302-B Secondary School Teacher, Arts and Crafts  
2302-C Secondary School Teacher, Home Economics  
2302-D Secondary School Teacher, Manual/Industrial Arts  
2302-E Secondary School Teacher, Music  
2302-F Secondary School Teacher, Physical Education  
2302-G Secondary School Teacher, Careers  
2302-H Secondary School Teacher, Librarian

### 2303 REMEDIAL AND OTHER SPECIAL TEACHERS

2303-A Remedial Teacher  
2303-B Teacher of Intellectually Handicapped  
2303-C Teacher of Physically Handicapped  
2303-Z Remedial and Other Special Teachers nec

## 231 TECHNICAL AND FURTHER EDUCATION TEACHING OCCUPATIONS

### 2310 TAFE TEACHERS (EXCEPT TRADE TEACHERS)

2310-A Teacher, Applied Science (TAFE)  
2310-B Teacher, Art and Design (TAFE)  
2310-C Teacher, Building (TAFE)  
2310-D Teacher, Business Studies (TAFE)  
2310-E Teacher, Engineering (TAFE)  
2310-F Teacher, Horticultural and Agricultural Studies (TAFE)  
2310-G Teacher, Industrial Services (TAFE)  
2310-H Teacher, Music (TAFE)  
2310-I Teacher, Paramedical Studies (TAFE)  
2310-J Teacher, Personal Services (TAFE)  
2310-K Teacher, General Studies (TAFE)

### 2311 TAFE TEACHERS (TRADE)

2311-A Teacher, Metal Trades (TAFE)  
2311-B Teacher, Electrical Trades (TAFE)  
2311-C Teacher, Building Trades (TAFE)  
2311-D Teacher, Printing Trades (TAFE)  
2311-E Teacher, Vehicle Trades (TAFE)  
2311-F Teacher, Food Trades (TAFE)  
2311-Z TAFE Teachers (Trade) nec

## 232 HIGHER EDUCATION TEACHING AND RELATED OCCUPATIONS

### 2320 ACADEMIC TEACHERS AND RESEARCHERS, MANAGEMENT AND ADMINISTRATION (HIGHER EDUCATION)

2320-A Lecturer/Tutor, Business Studies (Higher Education)  
2320-B Lecturer/Tutor, Secretarial Studies (Higher Education)  
2320-Z Academic Teachers and Researchers, Management and Administration (Higher Education) nec

### 2321 ACADEMIC TEACHERS AND RESEARCHERS, NATURAL AND APPLIED SCIENCES (HIGHER EDUCATION)

2321-A Lecturer/Tutor, Agricultural Sciences (Higher Education)  
2321-B Lecturer/Tutor, Biological Sciences (Higher Education)  
2321-C Lecturer/Tutor, Chemistry (Higher Education)  
2321-D Lecturer/Tutor, Earth Sciences (Higher Education)  
2321-E Lecturer/Tutor, Food Sciences and Technology (Higher Education)  
2321-F Lecturer/Tutor, Materials Sciences (Higher Education)  
2321-G Lecturer/Tutor, Physics (Higher Education)  
2321-H Lecturer/Tutor, Environmental Studies (Higher Education)  
2321-I Lecturer/Tutor, Veterinary Science (Higher Education)  
2321-Z Academic Teachers and Researchers, Natural and Applied Sciences (Higher Education) nec

### 2322 ACADEMIC TEACHERS AND RESEARCHERS, ENGINEERING, DATA PROCESSING AND ARCHITECTURE (HIGHER EDUCATION)

2322-A Lecturer/Tutor, Chemical Engineering (Higher Education)  
2322-B Lecturer/Tutor, Civil Engineering (Higher Education)  
2322-C Lecturer/Tutor, Electrical/Electronic Engineering (Higher Education)  
2322-D Lecturer/Tutor, Industrial and Production Engineering (Higher Education)  
2322-E Lecturer/Tutor, Mechanical Engineering (Higher Education)  
2322-F Lecturer/Tutor, Mining Engineering (Higher Education)  
2322-G Lecturer/Tutor, Computer Science/Electronic Data Processing (Higher Education)  
2322-H Lecturer/Tutor, Mathematics (Higher Education)  
2322-I Lecturer/Tutor, Statistics (Higher Education)  
2322-J Lecturer/Tutor, Architecture (Higher Education)  
2322-K Lecturer/Tutor, Building (Higher Education)  
2322-L Lecturer/Tutor, Surveying (Higher Education)  
2322-Z Academic Teachers and Researchers, Engineering, Data Processing and Architecture (Higher Education) nec

### 2323 ACADEMIC TEACHERS AND RESEARCHERS, SOCIAL SCIENCES AND HUMANITIES (HIGHER EDUCATION)

2323-A Lecturer/Tutor, Anthropology (Higher Education)  
2323-B Lecturer/Tutor, Economics (Higher Education)  
2323-C Lecturer/Tutor, Geography (Higher Education)  
2323-D Lecturer/Tutor, Law (Higher Education)  
2323-E Lecturer/Tutor, Librarianship (Higher Education)  
2323-F Lecturer/Tutor, Political Science (Higher Education)  
2323-G Lecturer/Tutor, Psychology (Higher Education)  
2323-H Lecturer/Tutor, Social/Welfare Work (Higher Education)  
2323-I Lecturer/Tutor, Sociology (Higher Education)  
2323-J Lecturer/Tutor, Urban and Regional Planning (Higher Education)  
2323-K Lecturer/Tutor, History (Higher Education)  
2323-L Lecturer/Tutor, Classical Studies (Higher Education)  
2323-M Lecturer/Tutor, English (Higher Education)  
2323-N Lecturer/Tutor, Modern Languages (Higher Education)  
2323-O Lecturer/Tutor, Philosophy (Higher Education)  
2323-Z Academic Teachers and Researchers, Social Sciences and Humanities (Higher Education) nec

### 2324 ACADEMIC TEACHERS AND RESEARCHERS, EDUCATION (HIGHER EDUCATION)

2324-A Lecturer/Tutor, Education (Higher Education)  
2324-B Lecturer/Tutor, Early Childhood Teacher Education (Higher Education)  
2324-C Lecturer/Tutor, Primary Teacher Education (Higher Education)  
2324-D Lecturer/Tutor, Secondary Teacher Education (Higher Education)  
2324-E Lecturer/Tutor, Special Teacher Education (Higher Education)  
2324-F Lecturer/Tutor, Tertiary Teacher Education (Higher Education)  
2324-Z Academic Teachers and Researchers, Education (Higher Education) nec

### 2325 ACADEMIC TEACHERS AND RESEARCHERS, MEDICINE AND HEALTH (HIGHER EDUCATION)

2325-A Lecturer/Tutor, Medical Sciences (Higher Education)  
2325-B Lecturer/Tutor, Dentistry (Higher Education)  
2325-C Lecturer/Tutor, Medical Technology (Higher Education)  
2325-D Lecturer/Tutor, Nursing (Higher Education)  
2325-E Lecturer/Tutor, Nutrition and Dietetics (Higher Education)  
2325-F Lecturer/Tutor, Pharmacy (Higher Education)  
2325-Z Academic Teachers and Researchers, Medicine and Health (Higher Education) nec

### 2326 ACADEMIC TEACHERS AND RESEARCHERS, ARTISTIC AND LITERARY FIELDS (HIGHER EDUCATION)

2326-A Lecturer/Tutor, Design (Higher Education)  
2326-B Lecturer/Tutor, Dramatic Arts (Higher Education)  
2326-C Lecturer/Tutor, Fine Arts (Higher Education)  
2326-D Lecturer/Tutor, Music (Higher Education)  
2326-E Lecturer/Tutor, Professional Writing and Journalism (Higher Education)  
2326-Z Academic Teachers and Researchers, Artistic and Literary Fields (Higher Education) nec

### 2327 ACADEMIC RESEARCH ASSISTANTS

2327-A Academic Research Assistant, Management, Administration and Related Fields  
2327-B Academic Research Assistant, Natural and Applied Sciences  
2327-C Academic Research Assistant, Mathematical and Computer Sciences  
2327-D Academic Research Assistant, Engineering  
2327-E Academic Research Assistant, Architecture, Building and Related Fields  
2327-F Academic Research Assistant, Social Sciences  
2327-G Academic Research Assistant, Humanities  
2327-H Academic Research Assistant, Religious Studies  
2327-I Academic Research Assistant, Education  
2327-J Academic Research Assistant, Medical Sciences  
2327-K Academic Research Assistant, Dentistry  
2327-L Academic Research Assistant, Paramedical Sciences  
2327-M Academic Research Assistant, Artistic, Literary and Sporting Fields  
2327-Z Academic Research Assistants nec

### 2329 OTHER HIGHER EDUCATION TEACHING AND RELATED OCCUPATIONS

2329-A Lecturer/Tutor, Religious Studies (Higher Education)  
2329-Z Higher Education Teaching and Related Occupations nec

## 233 TEACHING SERVICES OCCUPATIONS

### 2330 SCHOOL TEACHER SERVICES OCCUPATIONS

2330-A Education Officer  
2330-B School Inspector, Primary  
2330-C School Inspector, Secondary  
2330-Z School Teacher Services Occupations nec

### 2331 TAFE TEACHER SERVICES OCCUPATIONS

2331-A Education Officer, Curriculum Development (TAFE)  
2331-B Education Officer, Staff Development (TAFE)

### 2339 OTHER TEACHING SERVICES OCCUPATIONS

2339-Z Teaching Services Occupations nec

## MINOR GROUP 230 SCHOOL TEACHING OCCUPATIONS

School Teaching Occupations are classified in the following unit groups.

- 2300 Pre-Primary School Teachers
- 2301 Primary School Teachers
- 2302 Secondary School Teachers
- 2303 Remedial and Other Special Teachers

### 2300 PRE-PRIMARY SCHOOL TEACHERS

This unit group covers occupations concerned with teaching children in a pre-school.

**Entry Requirements** a diploma in teaching with special emphasis on early childhood education.

**Activities include** introducing children to the rudiments of music, art and literature in a pre-primary centre or independent pre-school institution; and promoting the physical, mental and social development of pre-school children and their school readiness.

#### 2300-A PRE-PRIMARY SCHOOL TEACHER Kindergarten Teacher; Pre-School Teacher

Introduces children to the rudiments of music, art and literature in a pre-primary centre or independent pre-school institution, and promotes their physical, mental and social development and their school readiness.

Plans and structures an environment both indoors and outdoors with a variety of materials and equipment designed to facilitate the childrens' development through their play. Provides a variety of experiences and activities which foster the development of gross and fine motor skills, co-operative social skills, a positive self concept and the understanding of concepts about the child's world. Promotes language development through such experiences as story telling, role play, songs, rhymes and informal discussions held individually or as a group. Observes children to detect signs of ill health or emotional disturbance and to evaluate progress. In so doing becomes aware of disabilities which may impede the child's progress. Discusses child's progress and problems with parents. Usually participates in parent/staff committees.

May participate in other community programs. May supervise student early childhood teachers on placement. May teach children at a junior primary level.

#### *Job Content Factors*

##### *Workers*

FP: GE12y PSP3y(Dip)	IP: T1y
HC: SEA	RQ: U2 A2

##### *Materials*

SM: I2 P1 T2	EQ: S2 K2
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##### *Functions*

MA: A2 P1 D2 R3 M3 L1	SA: P1
PA: P2 E2	

##### *Context*

EC: L1	TC: A1
SS: 7	SC: 9 (8 y)

LMS: 7000-8000(0 %SE)

ASIC: 82

### 2301 PRIMARY SCHOOL TEACHERS

This unit group covers occupations concerned with teaching young children a variety of subjects in a primary school.

**Entry Requirements** a diploma in teaching or degree in education with special emphasis on primary education, or a degree and a graduate diploma in education.

**Activities include** any combination of the following duties: teaching basic academic subjects and elements of social behaviour to young children at junior primary level; preparing teaching outlines for

relevant courses of study; presenting subject matter to class through talks, demonstrations and audio-visual teaching aids; conducting discussions by pupils and supervising work in class; planning and organising field trips; testing and evaluating pupils for individual progress in written and oral work, and taking remedial action where necessary; maintaining order in the classroom and other areas of the school; encouraging development of pupils and dealing with social adjustment problems; discussing pupils' progress and behavioural problems with parents and suggesting remedial action; keeping attendance and class records as required; developing course curricula; assisting student primary teachers to develop their teaching skills.

### 2301-A INFANT SCHOOL TEACHER Junior Primary Teacher

Teaches basic academic subjects and elements of social behaviour pupils at a junior primary level.

Teaches basic subjects such as reading, writing and mathematics pupils in junior grades. Ensures that each child uses and develops his/her particular capabilities to the greatest possible extent. Has responsibility for developing the child's interests, abilities and co-ordination by way of activities such as constructive play, class singing and dancing, drawing, painting and story reading. Gradually introduces the child to the discipline of school life.

May teach pre-school children.

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(Dip)	IP: T1y
or FP: GE12y PSP4y(PG) / (D)	IP: T1y
HC: SEA	RQ: U2 A2

##### Materials

SM: 12 P1 T2	EQ: S2 K2
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##### Functions

MA: A2 P1 D2 R3 M3 L1	SA: P1
PA: P2 E2	

##### Context

EC: L1	TC: A1
SS: 7	SC: 9 (8 y)

LMS: 9000 (0 %SE)

ASIC: 82

### 2301-B PRIMARY SCHOOL TEACHER

Teaches academic subjects within a prescribed curriculum and elements of social behaviour to pupils in primary schools.

Performs duties as described in the definition for Unit Group 2301 PRIMARY SCHOOL TEACHERS. Teaches subjects such as reading, writing, oral expression, mathematics, science, social studies, physical education, health, arts and crafts and/or music to primary school children.

May perform extra-curricular duties such as assisting with athletics, school concerts and special interest programs. May attend parent/staff functions. May teach several or all grades including junior primary level classes. May teach as part of a team in urban or larger rural primary schools. May discuss with education officers matters relating to school functions such as curriculum or staff development, and undertake in-service work as required. May develop and teach educational programs for intellectually gifted students and/or take remedial classes for students with learning disabilities.

May teach children in their homes or in remote areas by periodic visits, by correspondence or by use of the broadcasting medium, and be designated accordingly,

Itinerant Teacher, Primary  
Primary School Teacher, Correspondence  
School of the Air Teacher, Primary

May co-ordinate educational activities of teaching staff and be designated accordingly,

Headmaster/mistress, Primary School

In smaller, single teacher schools may undertake administrative functions and be designated accordingly, Teacher-in-Charge

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(Dip)	IP: T1y
or FP: GE12y PSP4y(PG) / (D)	IP: T1y
HC: SAI	RQ: U2

##### Materials

SM: D2 I2 P1	EQ: S2
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##### Functions

MA: A2 P1 D2 R3 M3 L1	SA: P1
PA: P2 S2 W1 E2	

##### Context

EC: L1	TC: A1
SS: 7	SC: 9 (8 y)

LMS: 37000 (0 %SE)

ASIC: 82

### 2301-C PRIMARY SCHOOL TEACHER, ARTS AND CRAFTS

Teaches arts and crafts in a primary school.

Performs duties as described in the definition for Unit Group 2301 PRIMARY SCHOOL TEACHERS. Teaches art and craft subjects such as drawing, painting, pottery, printmaking and sculpture to primary school children.

May teach classroom subjects in the core program. May arrange for exhibitions of students' works. May be responsible for defining objectives, methods and evaluating art programs in primary schools. May co-ordinate art and craft teaching in a primary school. May work on an itinerant basis.

#### Related Occupations

Occupation 3000-E : Teacher, Art (Private)

Occupation 3003-Z : Teacher, Handicrafts (Private)

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(Dip)	IP: T1y
or FP: GE12y PSP4y(PG) / (D)	IP: T1y
HC: ASI	RQ: Q2 U2

##### Materials

SM: D2 I2 P1 T2	EQ: S2
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##### Functions

MA: A2 P1 D2 R3 M3 L1	SA: S2 L2 P1
PA: P2 S2 W1 E2	

##### Context

EC: L1	TC: A1
SS: 7	SC: 9 (8 y)

LMS: 17000 (0 %SE)

ASIC: 82

### 2301-D PRIMARY SCHOOL TEACHER, MUSIC

Teaches music in a primary school.

Performs duties as described in the definition for Unit Group 2301 PRIMARY SCHOOL TEACHERS. Teaches music and musical appreciation to primary school children and conducts group instrumental and choral performances.

May teach classroom subjects in the core program. May arrange concerts and recitals for performances by students. May work on an itinerant basis.

#### Related Occupations

Occupation 3023-F : Teacher, Instrumental Music (Private)

Occupation 3023-G : Teacher, Vocal Music (Private)

#### Job Content Factors

##### Workers

FP: GE12y PSP3-4y(Dip) IP: T1y  
or FP: GE12y PSP4y(PG) / (D) IP: T1y  
HC: ASI RQ: Q2 U2 A2

##### Materials

SM: D2 I2 P1 EQ: P1 S2 K1

##### Functions

MA: A2 P1 D2 R3 M3 L1  
PA: P2 S2 W1 E2 SA: S1 L2 P1

##### Context

EC: L1 TC: A1  
SS: 7 SC: 9 (8 y)

LMS: 9000 (0 %SE)

ASIC: 82

### 2301-E PRIMARY SCHOOL TEACHER, PHYSICAL EDUCATION

Teaches physical education activities in a primary school.

Performs duties as described in the definition for Unit Group 2301 PRIMARY SCHOOL TEACHERS. Teaches classroom subjects in health education. Teaches gymnastics and dance within a framework of principles of movements. Teaches a range of games appropriate to the ages, capabilities and interests of students. Organises, teaches and supervises a wide range of indoor and outdoor individual and team games and sports.

May teach classroom subjects in the core program. May perform extra-curricular activities such as organising camping trips and expeditions. May be responsible for defining objectives, programming and evaluating physical education in a primary school. May work on an itinerant basis.

#### Job Content Factors

##### Workers

FP: GE12y PSP3y(Dip) IP: T1y  
or FP: GE12y PSP4y(PG) / (D) IP: T1y  
HC: SRE RQ: U2

##### Materials

SM: I2 P1 EQ: N2

#### Functions

MA: A2 P1 D2 R3 L2  
PA: C2 W1 E2

SA: S2 L1 P1

#### Context

EC: L3 TC: A1  
SS: 7 SC: 9 (8 y)

LMS: 9000 (0 %SE)

ASIC: 82

### 2301-F PRIMARY SCHOOL TEACHER, LIBRARIAN

Instructs primary school children in library skills either formally on group basis or informally on individual basis, works with other staff on curriculum development and develops, organises and maintains a collection of library materials.

Aids pupils in use of library resources, selection of suitable reference books and materials, and choice of reading matter. Advises pupils on note taking, summarising, essay writing and project work. Assists other teachers with devising and implementing curricula and with curriculum problems. Recommends acquisition of books, periodicals, audio-visual and other library materials for inclusion in school library collection. Organises library collection by classifying and cataloguing material. Prepares bibliographies, indexes, reading lists and other finding aids. Explains to pupils and other teachers how microfilm reader, indexes and reading guides should be used to locate specific information, and informs them about other library services such as those of reference section and music rooms. Directs assembling and arranging of book displays. Maintains discipline in classroom, library and other school areas.

May teach primary subjects and elements of social behaviour. May supervise clerical personnel engaged in such activities as issuing and receiving library material, and stacking and restacking books.

#### Job Content Factors

##### Workers

FP: GE12y PSP4y(PG) / (D) IP: T1y  
HC: SAI RQ: U2

##### Materials

SM: D2 I2 P1 T2 EQ: S2

##### Functions

MA: A2 P1 D2 R3 M3 L1  
PA: S2 W2 E2 SA: S2 L2 P1

##### Context

EC: L1 TC: A1  
SS: 7 SC: 9 (8 y)

LMS: 9000 (0 %SE)

ASIC: 82

## 2302 SECONDARY SCHOOL TEACHERS

This unit group covers occupations concerned with teaching a variety of subjects at secondary school level including arts and crafts, business studies, English, foreign languages, geography, home economics, manual arts, mathematics, music, physical education and science.

**Entry Requirements** a diploma in teaching or degree in education with special emphasis on secondary education, or a degree and a graduate diploma in education.

**Activities include** any combination of the following duties: developing course curricula; preparing teaching outlines for courses of study, usually in two or more areas; instructing students through presentation of lesson material, discussions, workshop and laboratory sessions, and the use of audio-visual aids; assigning and correcting homework papers; preparing, administering and marking tests to evaluate students' progress and recording results; maintaining discipline in classrooms and other school areas; participating in staff meetings, and educational conferences and workshops;

performing duties such as organising or participating in special activities of student organisations, assisting students in selecting courses of study and advising them on academic and other problems; assisting student secondary teachers to develop their teaching skills; allocating subordinate teachers to classes and co-ordinating their workload; timetabling examinations and determining grading levels of examination scripts.

**2302-A SECONDARY SCHOOL TEACHER, ACADEMIC SUBJECTS**  
**High School Teacher**

Teaches one or more subjects in a secondary school.

Performs duties as described in the definition for Unit Group 2302 SECONDARY SCHOOL TEACHERS. Teaches one or more subjects such as business studies, economics, English, foreign languages, geography, history, mathematics, science and religious studies.

May co-ordinate teaching in a particular subject area and be designated accordingly, e.g.

Head, Department of Business Education; Senior Business Education Teacher; Business Education Master/Mistress  
 Head, English Department; Senior English Teacher; English Master/Mistress  
 Head, Geography Department; Senior Geography Teacher; Geography Master/Mistress  
 Head, Modern Languages Department; Modern Languages Master/Mistress  
 Head, Mathematics Department; Senior Mathematics Teacher; Mathematics Master/Mistress  
 Head, Science Department; Senior Science Teacher; Science Master/Mistress  
 Senior Biology Teacher  
 Senior Chemistry Teacher  
 Senior Economics Teacher  
 Senior French Teacher  
 Senior German Teacher  
 Senior History Teacher

May co-ordinate educational activities of teaching staff and be designated accordingly,

Headmaster/mistress, Secondary School

May teach children in their homes or in remote areas by periodic visits, by correspondence or through broadcasting, or have particular responsibility for the discipline of the pupils and be designated accordingly, e.g.

Itinerant Teacher, Secondary  
 Secondary School Teacher, Correspondence  
 School of the Air Teacher, Secondary  
 Senior Master/Mistress

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4y(PG) / (D)	IP: T1y
or FP: GE12y PSP3-4y(Dip)	IP: T1y
HC: SEC	RQ: U2
<b>Materials</b>	
SM: D2 I2 P1	EQ: S2
<b>Functions</b>	
MA: A2 P1 D2 R3 M3 L1	
PA: S2 W2 E2	SA: S2 L2 P1
<b>Context</b>	
EC: L1	TC: A1
SS: 7	SC: 10 (8 y)

LMS: 30000 (0 %SE)

ASIC: 82 &

**2302-B SECONDARY SCHOOL TEACHER, ARTS AND CRAFTS**  
**High School Teacher, Arts and Crafts**

Teaches arts and crafts in a secondary school.

Performs duties as described in the definition for Unit Group 2302 SECONDARY SCHOOL TEACHERS. Teaches art and craft topics such as art history, ceramics, drawing, painting, printmaking, sculpture, photography and needlework.

May teach one or more other subjects within the school curriculum as required. May arrange for exhibitions of students' work. May co-ordinate teaching of arts and crafts and be designated accordingly, e.g.

Head, Art Department; Senior Art Teacher; Art Master/Mistress

**Related Occupations**

Occupation 3000-E : Teacher, Art (Private)

Occupation 3003-Z : Teacher, Handicrafts (Private)

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4y(D) / (PG)	IP: T1y
or FP: GE12y PSP3-4y(Dip)	IP: T1y
HC: ASI	RQ: Q2 U2 V2
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ: S2
<b>Functions</b>	
MA: A2 P1 D2 R3 M3 L1	
PA: P2 U2 S2 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1	TC: A1
SS: 7	SC: 10 (8 y)

LMS: 10000 (0 %SE)

ASIC: 82

**2302-C SECONDARY SCHOOL TEACHER, HOME ECONOMICS**  
**High School Teacher, Home Economics**

Teaches home economics in a secondary school.

Performs duties as described in the definition for Unit Group 2302 SECONDARY SCHOOL TEACHERS. Teaches topics in the field of home economics such as food and nutrition, clothing and fabrics, early childhood studies and family resources management.

May teach one or more other subjects within the school curriculum as required. May co-ordinate teaching of home economics and be designated accordingly, e.g.

Head, Home Economics Department; Senior Home Economics Teacher; Home Economics Master/Mistress

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4y(D) / (PG)	IP: T1y
or FP: GE12y PSP3-4y(Dip)	IP: T1y
HC: SAI	RQ: U2 A2
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ: P2 S2
<b>Functions</b>	
MA: A2 P1 D2 R3 M3 L1	
PA: P2 U2 S2 W2 E2	SA: S2 L2 P1
<b>Context</b>	
EC: L1	TC: A1
SS: 7	SC: 10 (8 y)

LMS: 10000 (0 %SE)

ASIC: 82

**2302-D SECONDARY SCHOOL TEACHER,  
MANUAL/INDUSTRIAL ARTS**  
High School Teacher, Manual/Industrial Arts

Teaches manual arts in a secondary school.

Performs duties as described in the definition for Unit Group 2302 SECONDARY SCHOOL TEACHERS. Teaches topics in the field of manual arts such as metalwork, art metalwork, woodwork and technical drawing.

May teach one or more other subjects within the school curriculum as required. May co-ordinate teaching of manual arts and be designated accordingly, e.g.

Head, Manual/Industrial Arts Department; Senior Manual/Industrial Arts Teacher; Manual/Industrial Arts Master/Mistress

**Job Content Factors**

**Workers**

FP: GE12y PSP4y(D) / (PG) IP: T1y  
or FP: GE12y PSP3-4y(Dip) IP: T1y  
HC: SAR RQ: U2 V2

**Materials**

SM: D2 P1 T1 EQ: P2 S1 M2

**Functions**

MA: A2 P1 D2 R3 M3 L1  
PA: P2 S2 W1 E3 SA: S2 L2 P2

**Context**

EC: L1 TC: A1  
SS: 7 SC: 10 (8 y)

LMS: 10000 (0 %SE)

ASIC: 82

**2302-E SECONDARY SCHOOL TEACHER,  
MUSIC**  
High School Teacher, Music

Teaches music in a secondary school.

Performs duties as described in the definition for Unit Group 2302 SECONDARY SCHOOL TEACHERS. Teaches topics in the field of music such as music theory, practice, appreciation, history and literature.

May teach one or more other subjects within the school curriculum as required. May provide instrumental instruction to individuals or small groups, and/or co-operate with a teacher of instrumental music who provides this type of instruction. May arrange for pupils to give musical recitals and concerts. May direct school choral groups. May co-ordinate teaching of music and be designated accordingly, e.g.

Head, Music Department; Senior Music Teacher; Music Master/Mistress

**Related Occupations**

Occupation 3023-F : Teacher, Instrumental Music  
(Private)

Occupation 3023-G : Teacher, Vocal Music  
(Private)

**Job Content Factors**

**Workers**

FP: GE12y PSP4y(D) / (PG) IP: T1y  
or FP: GE12y PSP3-4y(Dip) IP: T1y  
HC: ASI RQ: Q2 U2 A1

**Materials**

SM: D2 I2 P1 EQ: P1 K2

**Functions**

MA: A2 P1 D2 R3 M3 L1  
PA: P2 S2 W2 E2 SA: S1 L2 P1

**Context**

EC: L1 TC: A1  
SS: 7 SC: 10 (8 y)

LMS: 10000 (0 %SE)

ASIC: 82

**2302-F SECONDARY SCHOOL TEACHER,  
PHYSICAL EDUCATION**  
High School Teacher, Physical Education

Teaches physical education activities in a secondary school.

Performs duties as described in the definition for Unit Group 2302 SECONDARY SCHOOL TEACHERS. Teaches classroom subjects in the core program and in health education; teaches gymnastics and dance within a framework of principles of movement; teaches a range of games appropriate to the interests and capabilities of students; organises, teaches and referees a wide range of indoor and outdoor individual and team sports; coaches selected students in the area of his/her particular sporting expertise.

May perform extra-curricular activities such as coaching and organising camping trips and expeditions.

**Job Content Factors**

**Workers**

FP: GE12y PSP4y (PG) IP: T1y  
or FP: GE12y PSP3-4y(Dip) IP: T1y  
HC: SRE RQ:

**Materials**

SM: I2 P1 EQ: N2

**Functions**

MA: A2 P1 D2 R3 M3 L1  
PA: U2 C2 S2 W1 E2 SA: S2 L2 P1

**Context**

EC: L3 TC: A1  
SS: 7 SC: 10 (8 y)

LMS: 10000 (0 %SE)

ASIC: 82

**2302-G SECONDARY SCHOOL TEACHER,  
CAREERS**

Provides information and resources to help secondary school students develop the skills necessary to make a realistic vocational choice.

Performs duties as described in the definition for Unit Group 2302 SECONDARY SCHOOL TEACHERS. Teaches courses designed to prepare students for career decisions and to help them develop career related skills. Maintains and develops library and audio-visual resources on occupations and tertiary courses. Arranges for guest speakers from different occupational areas and from tertiary and other educational institutions to address students. Keeps in contact with local CES office regarding employment opportunities and advises them of the number of students coming on to the labour market. Interviews students and advises them on employment opportunities. Organises work experience programs.

May teach one or more academic subjects. May arrange placements for students.

**Job Content Factors**

**Workers**

FP: GE12y PSP4-5y (PG) IP: T1y  
or FP: GE12y PSP3y(Dip) IP: T1y  
HC: SEA RQ: U2

**Materials**

SM: D2 P1 EQ:

**Functions**

MA: A2 P1 D2 R3 M3 L1  
PA: P2 S1 W2 E1 SA: S1 P1

**Context**

EC: L1 TC: A1  
SS: 7 SC: 10 (8 y)

LMS: 2000 (0 %SE)

ASIC: 82

**2302-H SECONDARY SCHOOL TEACHER,  
LIBRARIAN**

Instructs secondary school students in library skills either formally on group basis or informally on individual basis, works with other staff on curriculum development and develops, organises and maintains a collection of library material.

Aids pupils in use of library resources, selection of suitable reference books and materials, and choice of reading matter. Advises pupils on note taking, summarising, essay writing and project work. Assists other teachers with devising and implementing curricula and with curriculum problems; recommends acquisition of books, periodicals, audio-visual and other library materials for inclusion in school library collection. Organises library collection by classifying and cataloguing material. Prepares bibliographies, indexes, reading lists and other finding aids. Explains to pupils and other teachers how microfilm reader, indexes and reading guides should be used to locate specific information, and informs them about other library services such as those of reference section and music rooms. Directs assembling and arranging of book displays. Maintains discipline in classroom, library and other school areas.

May teach basic academic or vocational subjects, assign lessons and correct homework. May prepare, administer and mark tests to evaluate students' progress, and record results.

May supervise clerical personnel engaged in such activities as issuing and receiving library material, and stacking and restacking books.

<b>Job Content Factors</b>	
<b>Workers</b>	
FP: GE12y PSP4y(D) / (PG)	IP: T1y
or FP: GE12y PSP3y(Dip)	IP: T1y
HC: SAC	RQ: U2 V2
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ:
<b>Functions</b>	
MA: A2 P1 D2 R3 M3 L1	
PA: P2 S1 W2 E2	SA: S1 P1
<b>Context</b>	
EC: L1	TC: A1
SS: 7	SC: 10 (8 y)
LMS: 10000 (0 %SE)	ASIC: 82

2303 REMEDIAL AND OTHER SPECIAL TEACHERS

This unit group covers occupations concerned with teaching children in special educational units at pre-schools, primary and secondary schools and in special residential and hospital schools, and with teaching children from a variety of different ethnic backgrounds.

**Entry Requirements** primary or secondary teaching qualifications and, in some cases, appropriate teaching experience, in addition to a post-graduate qualification in special or remedial education, or Aboriginal or multicultural education depending on nature of teaching duties; alternatively, a diploma in teaching with special emphasis on primary and special education.

**Activities include** teaching primary or secondary school subjects to visually impaired, hearing impaired, physically handicapped, socially and emotionally handicapped and Aboriginal children, to children with particular learning difficulties and/or disabilities, and to children with different ethnic backgrounds; teaching basic academic and social skills to intellectually handicapped children; and assessing particular needs of pupils and adapting school curriculum and teaching methods to meet their requirements.

2303-A REMEDIAL TEACHER  
Remedial Resource Teacher; Resource Teacher

Teaches students with particular learning difficulties and/or disabilities usually within primary or secondary schools.

Diagnoses and assesses learning difficulties in children in normal educational programs using a variety of observational, psychometric and other testing techniques. Plans, organises and implements special programs in order to provide remedial tuition, either by teaching such children individually or in small groups out of the regular classroom, or by assisting them within the normal classroom setting. Provides advice concerning community services available to assist children with special difficulties.

May specialise in teaching a particular subject to students with learning difficulties and be designated accordingly, e.g. Remedial English Teacher

<b>Job Content Factors</b>	
<b>Workers</b>	
FP: GE12y PSP4-5y(PG) / (D)	IP: T1y E0-2y
or FP: GE12y PSP3y(Dip)	IP: T1y
HC: SA1	RQ: P2 U2

<b>Materials</b>	
SM: D2 I2 P1	EQ: S2
<b>Functions</b>	
MA: A2 P2 D2 R3 M3 L1	
PA: U2 S2 W2 E1	SA: S2 P1
<b>Context</b>	
EC: M2 L1	TC: A1
SS: 7	SC: 10 (8 y)
LMS: 5000-6000(0 %SE)	ASIC: 82

2303-B TEACHER OF INTELLECTUALLY HANDICAPPED  
Teacher of the Mentally Handicapped

Teaches basic academic and social skills to intellectually handicapped children.

Plans courses of study according to pupils' levels of learning and attention span. Teaches self-help skills and independence in daily living. Teaches basic subjects such as reading and mathematics, music, practical skills, arts and crafts, communication skills and physical education. Stimulates and develops interests, abilities, manual skills and co-ordination. Administers various forms of assessment and interprets the results. Prepares reports for case conference discussions.

May prepare reports on progress of pupils for evaluation by employment or rehabilitation officers.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP4-5y(PG) / (D) or FP: PSP3y(Dip) HC: SAI	IP: T1y E0-2y IP: T1y RQ: P2 U2
<i>Materials</i>	
SM: D2 I2 P1	EQ: S2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L1 PA: P2 S2 W2 E2	SA: S1 L2 P1 B2 R4
<i>Context</i>	
EC: L1 SS: 7	TC: A1 SC: 10 (8 y)
LMS: 1000-1500(0 %SE)	ASIC: 82

**2303-C            TEACHER OF PHYSICALLY  
                         HANDICAPPED**

Teaches primary or secondary school subjects to physically handicapped pupils including the visually and/or hearing impaired.

Evaluates pupils' abilities and limitations in order to develop training programs that will result in maximum progress. Plans academic and individual needs of pupils. Devises instructional materials, methods and aids to assist in training and rehabilitation process. Gives advice, instruction and counselling regarding special techniques used relating to impairment to parents of handicapped children in the home environment. Gives special instruction to individual or small groups of pre-primary school children. Instructs children in the development of skills of daily living and adjustment to their environment. Teaches pupils in home, hospital, treatment centre or school classroom.

May develop pupils' use of hearing, speech and language, using special devices and techniques such as high-powered hearing aids or other amplifying equipment and visual aids to assist in the development and use of residual hearing, lip reading and speaking ability, and be designated accordingly,  
Teacher of Hearing Impaired

May instruct pupils in reading and writing braille, using aids such as braille writer, typewriter and optacon, teach listening skills and train pupils to recognise objects and perform useful duties by developing other senses, and be designated accordingly,  
Teacher of Visually Impaired; Teacher of the Blind

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP4-5y(PG) / (D) or FP: PSP3y(Dip) HC: SAI	IP: T1y E0-2y IP: T1y RQ: P2 U2
<i>Materials</i>	
SM: D2 I2 P1	EQ: S2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L1 PA: P2 S2 W2 E2	SA: S1 L2 P1 B2 R4
<i>Context</i>	
EC: L1 SS: 7	TC: A1 SC: 10 (8 y)
LMS: 1000-1500(0 %SE)	ASIC: 82

**2303-Z            REMEDIAL AND OTHER SPECIAL  
                         TEACHERS nec**

This residual group covers teachers, not elsewhere classified in unit Group 2303, who teach exceptional children such as the intellectually gifted or socially and emotionally handicapped, or children of ethnic backgrounds, including Aborigines, with specific problems of language and/or cultural assimilation, and who are designated accordingly,  
Teacher of Intellectually Gifted Children  
Teacher of Socially and Emotionally Handicapped Children  
Aboriginal Education Teacher  
Teacher, English as a Second Language

MINOR GROUP 231  
TECHNICAL AND FURTHER EDUCATION TEACHING OCCUPATIONS

Technical and Further Education Teaching Occupations are classified in the following unit groups.

- 2310 TAFE Teachers (Except Trade Teachers)
- 2311 TAFE Teachers (Trade)

2310 TAFE TEACHERS (EXCEPT TRADE TEACHERS)

This unit group covers occupations concerned with technical and further education teaching of mainly technician, post-trade, para-professional, commercial and non-trade vocational, preparatory and adult education courses.

**Entry Requirements** a degree or diploma in an appropriate area plus at least 2 years' industrial experience; however, depending on the teaching area, a para-professional certificate or an appropriate certificate of competency and relevant industrial experience may be required. If not already teacher-trained, full-time appointees to permanent teaching staff of a TAFE employing authority undertake a course of teacher training, usually with an emphasis on TAFE teaching, and on satisfactory completion are awarded a recognised professional teaching qualification.

**Activities include** performing duties as described under Master Title TEACHER (TAFE).

2310-A TEACHER, APPLIED SCIENCE (TAFE)  
Lecturer, Applied Science (TAFE)

Teaches courses in applied science to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more applied science subjects within an area such as conservation and resources, science and medical laboratory studies, food processing, thermal processing, dye chemistry, textile technology, and scientific aspects of photography.

May co-ordinate teaching of one area of applied science and be designated accordingly, e.g.

Head of Department, Medical Laboratory Studies (TAFE)

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3y(Dip) / (D)	IP: T2y E2-5y
HC: SEI	RQ: U2
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S2 K2
<i>Functions</i>	
MA: A2 P1 D2 R3 M2 L1	
PA: P2 U2 H2 S2 W1 E2	SA: S2 L1 P1
<i>Context</i>	
EC: L1	TC: A1
SS: 5	SC: 10 (vy)
LMS: 3000 (0 %SE)	ASIC: 82

2310-B TEACHER, ART AND DESIGN (TAFE)  
Lecturer, Art and Design (TAFE)

Teaches courses in art and design to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE).

Teaches one or more art and design subjects within an area such as painting, drawing, pottery and sculpture, spinning, dyeing and weaving, macrame, needlework and patchwork, leathercraft, glasswork, metalcraft, photography, ticket writing, finished art, interior decoration, fashion design, and fabric design and printing.

May co-ordinate teaching of one area of art and design, and be designated accordingly, e.g.

Head of Department, Fashion Design (TAFE)

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(Dip) / (D) or FP: GE11y PSP2-3y(PPC)	IP: T2y E2-5y IP: T2y E5-10y
HC: AS1	RQ: Q2 U2 V2
<i>Materials</i>	
SM: D2 I2 P1 T2	EQ: P2 S2 M2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L1	
PA: P1 U2 S2 W2 E2	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: A1
SS: 5	SC: 10 (vy)
LMS: 2000 (0 %SE)	ASIC: 82

2310-C TEACHER, BUILDING (TAFE)  
Lecturer, Building (TAFE)

Teaches courses in building to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more building subjects within an area such as architectural drafting, concrete technology,

scaffolding inspection and construction, forklift and excavator operating, weights and measures, rigging, pipeline design and building construction, surveying and estimating, municipal building surveying, building foremanship, building organisation and factory costing.

May co-ordinate teaching of one area of building and be designated accordingly, e.g.

Head of Department, Building foremanship/womanship (TAFE)

#### Job Content Factors

<b>Workers</b>	
FP: GE11y PSP3y(Dip)	IP: T2y E2-5y
HC: SER	RQ: U2
<b>Materials</b>	
SM: D2 P1 T2	EQ: S2 M2
<b>Functions</b>	
MA: A2 P1 D2 R3 M3 L1	
PA: U2 H2 S2 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1	TC: A1
SS: 5	SC: 10 (vy)
LMS: 3000 (0 %SE)	ASIC: 82

### 2310-D TEACHER, BUSINESS STUDIES (TAFE) Lecturer, Business Studies (TAFE)

Teaches courses in business studies to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more business studies subjects within an area such as accounting, banking, insurance; export/import, transport, travel, sales, marketing, safety, personnel, small business, building society, real estate management; local government, public administration, hospital and residential care administration; supervision, office procedures, secretarial studies, automatic data processing and work study.

May co-ordinate teaching of one area of business studies and be designated accordingly, e.g.

Head of Department, Real Estate Management (TAFE)

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3y(Dip) / (D)	IP: T2y E2-5y
HC: SER	RQ: U2
<b>Materials</b>	
SM: D2 P1 T2	EQ: S2 K2
<b>Functions</b>	
MA: A2 P1 D2 R3 M3 L1	
PA: P2 S2 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1	TC: A1
SS: 5	SC: 10 (vy)
LMS: 2000 (0 %SE)	ASIC: 82

### 2310-E TEACHER, ENGINEERING (TAFE) Lecturer, Engineering (TAFE)

Teaches courses in engineering to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more engineering subjects in field(s) such as electrical, electronic, communications, civil, structural, production, marine, or mechanical engineering; cartographic and survey drafting, civil, structural, electrical, mechanical or aircraft design drafting; farm welding, electric arc welding, electrical power, process measurement, steam engine driving, metallurgy, mining and refrigeration.

May co-ordinate teaching of one area of engineering and be designated accordingly, e.g.

Head of Department, Civil Engineering (TAFE)

#### Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3-4y(Dip) / (D)	IP: T2y E2-5y
HC: SRE	RQ: U2
<b>Materials</b>	
SM: D2 P1 T2	EQ: P2 S2 M2 K2
<b>Functions</b>	
MA: A2 P1 D2 R3 M2 L1	
PA: P1 S2 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1	TC: A1
SS: 5	SC: 10 (vy)
LMS: 2000 (0 %SE)	ASIC: 82

### 2310-F TEACHER, HORTICULTURAL AND AGRICULTURAL STUDIES (TAFE) Lecturer, Horticultural and Agricultural Studies (TAFE)

Teaches courses in horticultural and agricultural studies to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more horticultural and/or agricultural subjects within an area such as farm management, animal husbandry, equine management, veterinary nursing, farm skills training, indoor plants, irrigation management, vine production, commercial horticulture, harness making, objective wool measurement and wool classing.

May co-ordinate teaching of one area of horticultural and agricultural studies and be designated accordingly, e.g.

Head of Department, Veterinary Nursing (TAFE)

#### Job Content Factors

<b>Workers</b>	
FP: GE11y PSP2-3y(PPC) or FP: GE12y PSP3-4y(Dip) / (D)	IP: T2y E5-10y IP: T2y E2-5y
HC: SRE	RQ: L1 U2
<b>Materials</b>	
SM: D2 P1 T2	EQ: S2 N2 M2 V2
<b>Functions</b>	
MA: A2 P1 D2 R3 M3 L1	
PA: U2 C2 H2 S2 W1 E3	SA: S1 L2 P1
<b>Context</b>	
EC: L3	TC: A1
SS: 5	SC: 10 (vy)
LMS: 2000 (0 %SE)	ASIC: 82

### 2310-G TEACHER, INDUSTRIAL SERVICES (TAFE) Lecturer, Industrial Services (TAFE)

Teaches courses in industrial services to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more industrial services subjects within an area such as fishing, maritime studies, commercial piloting, compass adjustment, radar observing, industrial first aid, bus driving, truck driving, meat inspection, health surveying, food hygiene, book binding, flexographic and gravure printing, paper technology and merchandising, clothing, dressmaking, pattern cutting and grading, and industrial sewing machining.

May co-ordinate teaching of one area of industrial services and be designated accordingly, e.g.

Head of Department, Maritime Studies (TAFE)

#### Job Content Factors

<b>Workers</b>	
FP: GE11y PSP2-3y(PPC) or FP: GE9-10y PSP1y(B)	IP: T2y E5-10y IP: T2y E5-10y
HC: SRE	RQ: LV U2
<b>Materials</b>	
SM: D2 P1 T2	EQ: PV SV MV VV
<b>Functions</b>	
MA: A2 P1 D2 R3 M3 L1	
PA: PV CV HV S2 W1 EV	SA: S1 L2 P1

<i>Context</i>	
EC: MV L4	TC: A1
SS: 5	SC: 10 (vy)

LMS: 2000 (0 %SE)

ASIC: 82

### 2310-H TEACHER, MUSIC (TAFE) Lecturer, Music (TAFE)

Teaches courses in music to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more music subjects such as piano, organ, guitar, flute and general music.

May co-ordinate teaching of one area of music and be designated accordingly, e.g.

Head of Department, Piano Studies (TAFE)

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D)	IP: T2y E2-5y
HC: ASI	RQ: Q2 U2 A2
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 K2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L1	
PA: P2 S2 W2 E2	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: A1
SS: 5	SC: 10 (vy)

LMS: 2000 (0 %SE)

ASIC: 82

### 2310-I TEACHER, PARAMEDICAL STUDIES (TAFE) Lecturer, Paramedical Studies (TAFE)

Teaches para-professional courses in paramedical studies to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more paramedical subjects within an area such as dental materials, pre-nursing studies, dental clinic assisting, medical terminology and audiometry.

May co-ordinate teaching of one area of paramedical studies and be designated accordingly, e.g.

Head of Department, Audiometry (TAFE)

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D)	IP: T2y E2-5y
HC: SER	RQ: U2 V2 A2
<i>Materials</i>	
SM: D2 P1 T2	EQ: P1 S2 M2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L1	
PA: P2 C2 S2 W2 E2	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: A1
SS: 5	SC: 10 (vy)

LMS: 1000 (0 %SE)

ASIC: 82

### 2310-J TEACHER, PERSONAL SERVICES (TAFE) Lecturer, Personal Services (TAFE)

Teaches courses in personal services to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more personal services subjects within an area such as cakemaking and decoration, hostess cookery, home management, hospitality and tourism, catering, food freezing, wine appreciation and wine service, food preparation and service, bar attendance, hotel/restaurant reception, grooming and deportment.

May co-ordinate teaching of one area of personal services and be designated accordingly, e.g.

Head of Department, Catering (TAFE)

#### Job Content Factors

<i>Workers</i>	
FP: GE11y PSP2-3y(PPC) or FP: GE12y PSP3y(Dip)	IP: T2y E5-10y IP: T2y E2-5y
HC: SER	RQ: U2
<i>Materials</i>	
SM: D2 P1 T2	EQ: SV MV
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L1	
PA: P2 U2 S2 W2 E2	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: A1
SS: 5	SC: 10 (vy)

LMS: 1000 (0 %SE)

ASIC: 82

### 2310-K TEACHER, GENERAL STUDIES (TAFE) Lecturer, General Studies (TAFE)

Teaches courses of a general educational nature to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more subjects within an area such as physical education, physical fitness, mathematics, English expression, migrant English, languages, police studies, business communication, life skills and personal development, remedial subjects such as basic literacy and numeracy, and educational programs for Aborigines and unemployed youth.

May co-ordinate teaching of one area of general studies and be designated accordingly, e.g.

Head of Department, Police Studies (TAFE)

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D)	IP: T2y E2-5y
HC: SEA	RQ: U2
<i>Materials</i>	
SM: D2 I2 P1	EQ:
<i>Functions</i>	
MA: A2 P1 D2 R3 MV L1	
PA: S2 W2 E1	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: A1
SS: 5	SC: 10 (vy)

LMS: 2000 (0 %SE)

ASIC: 82

## 2311 TAFE TEACHERS (TRADE)

This unit group covers occupations concerned with technical and further education teaching of trade subjects.

**Entry Requirements** a trade qualification in an appropriate area plus at least 5 years' post-apprenticeship industrial experience. If not already teacher-trained, full-time appointees to perma

nent teaching staff of a TAFE employing authority undertake a course of teacher training, usually with an emphasis on TAFE teaching, and on satisfactory completion are awarded a recognised professional teaching qualification.

Activities include performing duties as described under Master Title TEACHER (TAFE).

2311-A      **TEACHER, METAL TRADES (TAFE)**  
                  **Lecturer, Metal Trades (TAFE)**

Teaches metal trade and post-trade courses to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more subjects within an area such as aircraft mechanics (airframe), blacksmithing, boilermaking, coppersmithing, electroplating, fitting and turning, locksmithing, motor mechanics, office machine mechanics, optical mechanics, refrigeration mechanics, sheet metal working, watch making and welding.

May co-ordinate teaching of one particular metal trade and be designated accordingly, e.g.

Head of Department, Motor Mechanics (TAFE)

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: T2y E5y
HC: SR	RQ: U2
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S2 M2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L1	
PA: P2 U2 C2 H2 S2 W2 E2	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: A1
SS: 8	SC: 10 (vy)
LMS: 1000 (0 %SE)	ASIC: 82

2311-B      **TEACHER, ELECTRICAL TRADES (TAFE)**  
                  **Lecturer, Electrical Trades (TAFE)**

Teaches electrical trade and post-trade courses to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more subjects within an area such as aircraft electrics, automotive electrics, electrical fitting, armature winding, electrical mechanics, radio and television mechanics and telegraph mechanics and servicing.

May co-ordinate teaching of one particular electrical trade and be designated accordingly, e.g.

Head of Department, Automotive Electrics (TAFE)

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: T2y E5y
HC: SR	RQ: U2
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 M2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L1	
PA: U2 C2 H2 S2 W2 E3	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: A1
SS: 8	SC: 10 (vy)
LMS: 1000 (0 %SE)	ASIC: 82

2311-C      **TEACHER, BUILDING TRADES (TAFE)**  
                  **Lecturer, Building Trades (TAFE)**

Teaches building trade and post-trade courses to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more subjects within an area such as bricklaying, carpentry and joinery, glazing, lead burning, painting and decorating, plastering, plumbing, signwriting, stonemasonry and tile laying.

May co-ordinate teaching of one particular building trade and be designated accordingly, e.g.

Head of Department, Plumbing (TAFE)

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: T2y E5y
HC: SR	RQ: U2
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 M2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L1	
PA: U2 C2 H2 S2 W2 E3	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: A1
SS: 8	SC: 10 (vy)
LMS: 1000 (0 %SE)	ASIC: 82

2311-D      **TEACHER, PRINTING TRADES (TAFE)**  
                  **Lecturer, Printing Trades (TAFE)**

Teaches printing trade and post-trade courses to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more subjects within an area such as binding and finishing, composition, electrotyping, graphic reproduction, gravure depositing and grinding and polishing, letterpress machining and lithographic printing.

May co-ordinate teaching of one particular printing trade and be designated accordingly, e.g.

Head of Department, Composition (TAFE)

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: T2y E5y
HC: RS	RQ: L1 U2
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 M2 V2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L1	
PA: U2 C2 H2 S2 W1 E3	SA: S1 L2 P1
<i>Context</i>	
EC: L3	TC: A1
SS: 8	SC: 10 (vy)
LMS: 1000 (0 %SE)	ASIC: 82

2311-E      **TEACHER, VEHICLE TRADES (TAFE)**  
                  **Lecturer, Vehicle Trades (TAFE)**

Teaches vehicle trade and post-trade courses to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE).

Teaches one or more subjects within an area such as vehicle body ing, coachsmithing, panel beating, springmaking and springfitting, trimming, vehicle painting and wheelmaking.

May co-ordinate teaching of one particular vehicle trade and be designated accordingly, e.g.  
Head of Department, Panel Beating (TAFE)

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: T2y E5y
HC: SRE	RQ: U2
<i>Materials</i>	
SM: D2 P1 T2	EQ: PV SV M2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L1	
PA: PV HV S2 W2 E2	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: A1
SS: 8	SC: 10 (vy)
LMS: 1000 (0 %SE)	ASIC: 82

**2311-F            TEACHER, FOOD TRADES (TAFE)**  
**Lecturer, Food Trades (TAFE)**

Teaches food trade and post-trade courses to technical and further education students.

Performs duties as described under Master Title TEACHER (TAFE). Teaches one or more subjects within an area such as baking, butchering, confectionery, cooking, pastrycooking, smallgoods making and waiting.

May co-ordinate teaching of one particular food trade and be designated accordingly, e.g.  
Head of Department, Pastrycooking (TAFE)

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: T2y E5y
HC: SRE	RQ: U2
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 M2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L1	
PA: P2 C2 E2	SA: P1
<i>Context</i>	
EC: L1	TC: A1
SS: 8	SC: 10 (vy)
LMS: 1000 (0 %SE)	ASIC: 82

**2311-Z            TAFE TEACHERS (TRADE) nec**

This residual group covers TAFE trade teachers not elsewhere classified in Unit Group 2311, e.g.

Teacher, Cabinet Making (TAFE)  
Teacher, Greenkeeping (TAFE)  
Teacher, Hairdressing (TAFE)  
Teacher, Tailoring (TAFE)  
Teacher, Upholstering (TAFE)  
Teacher, Woodmachining (TAFE)

**MINOR GROUP 232**  
**HIGHER EDUCATION TEACHING AND RELATED OCCUPATIONS**

Higher Education Teaching and Related Occupations are classified in the following unit groups.

- 2320 Academic Teachers and Researchers, Management and Administration (Higher Education)
- 2321 Academic Teachers and Researchers, Natural and Applied Sciences (Higher Education)
- 2322 Academic Teachers and Researchers, Engineering and Data Processing, Architecture (Higher Education)
- 2323 Academic Teachers and Researchers, Social Sciences and Humanities (Higher Education)
- 2324 Academic Teachers and Researchers, Education (Higher Education)
- 2325 Academic Teachers and Researchers, Medicine and Health (Higher Education)
- 2326 Academic Teachers and Researchers, Artistic and Literary Fields (Higher Education)
- 2327 Academic Research Assistants
- 2329 Other Higher Education Teaching and Related Occupations

**2320 ACADEMIC TEACHERS AND RESEARCHERS, MANAGEMENT AND ADMINISTRATION (HIGHER EDUCATION)**

This unit group covers occupations concerned with higher education teaching and academic research in management, administration and related fields.

**Entry Requirements** a degree/diploma or higher degree in or related to management and administration.

**Activities include** performing duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

**2320-A LECTURER/TUTOR, BUSINESS STUDIES (HIGHER EDUCATION)**

Teaches courses in business studies to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of business studies such as account-ing, auditing, commercial law, marketing, actuarial studies, valuation, local government, tourism and hospitality management, industrial relations, transport and distribution management, personnel management and public administration.

*Job Content Factors*

*Workers*

FP: GE12y PSP4-7y(PG) / (HD)	IP: T1y
or FP: GE12y PSP3y(D)	IP: T1y
HC: SIA	RQ: U1

*Materials*

SM: D1 I1 P2	EQ: K2
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*Functions*

MA: I1 A1 P1 D2 R2 M2 L1	
PA: S1 W2 E1	SA: S1 L2 P1

*Context*

EC: L1	TC: AV IV
SS: 5	SC: I1 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

**2320-B LECTURER/TUTOR, SECRETARIAL STUDIES (HIGHER EDUCATION)**

Teaches courses in secretarial studies to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of secretarial studies such as shorthand, typing, office procedures and management information systems.

**Job Content Factors****Workers**

FP: GE12y PSP3y(Dip) / (D) IP: T1y E5y  
HC: SIA RQ: U1

**Materials**

SM: D1 I2 P2 T2 EQ: K1

**Functions**

MA: I2 A2 P1 D2 R3 M3 L1  
PA: P2 S1 W2 E1 SA: S1 L2 P1

**Context**

EC: L1 TC: AV IV  
SS: 5 SC: 11 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

**2320-Z ACADEMIC TEACHERS AND RESEARCHERS, MANAGEMENT AND ADMINISTRATION (HIGHER EDUCATION) nec**

This residual group covers higher education teachers and academic researchers in management, administration and related fields not elsewhere classified in Unit Group 2320, e.g.

Lecturer/Tutor, Health Administration (Higher Education)

Lecturer/Tutor, Justice Administration (Higher Education)

Lecturer/Tutor, Medical Record Administration (Higher Education)

Research Fellow, Business Studies

Research Fellow, Health Administration

**2321 ACADEMIC TEACHERS AND RESEARCHERS, NATURAL AND APPLIED SCIENCES (HIGHER EDUCATION)**

This unit group covers occupations concerned with higher education teaching and academic research in the natural and applied sciences.

**Entry Requirements** a degree or higher degree in or related to a natural and/or applied science.

**Activities include** performing duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

**2321-A LECTURER/TUTOR, AGRICULTURAL SCIENCES (HIGHER EDUCATION)**

Teaches courses in agricultural sciences to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of agricultural science such as soil science, entomology, biometry, genetics and breeding, wool and pastoral science, agricultural extension, and farm and resource management.

**Job Content Factors****Workers**

FP: GE12y PSP5-8y(PG) / (HD) IP: T1y  
or FP: GE12y PSP4y(D) IP: T1y  
HC: ISR RQ: U1

**Materials**

SM: D1 I1 P2 T2 EQ: S2

**Functions**

MA: I1 A1 P1 D2 R2 M1 L1  
PA: U2 S1 W2 E2 SA: S1 L2 P1

**Context**

EC: T2 L4 TC: AV IV  
SS: 5 SC: 11 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

**2321-B LECTURER/TUTOR, BIOLOGICAL SCIENCES (HIGHER EDUCATION)**

Teaches courses in biological sciences to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more biological sciences such as zoology, botany, biochemistry, genetics, microbiology, ecology, marine biology and biological laboratory techniques.

**Job Content Factors****Workers**

FP: GE12y PSP4-7y(PG) / (HD) IP: T1y  
or FP: GE12y PSP3y(D) IP: T1y  
HC: SIA RQ: U1 A2

**Materials**

SM: D1 I1 P2 T2 EQ: P1 K2

**Functions**

MA: I1 A1 P1 D2 R2 M1 L1  
PA: P2 E2 SA: P1 M2 R4

**Context**

EC: L1 C13 TC: AV IV  
SS: 5 SC: 11 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

**2321-C LECTURER/TUTOR, CHEMISTRY (HIGHER EDUCATION)**

Teaches courses in chemistry to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of chemistry such as physical chemistry, organic chemistry, inorganic chemistry, marine chemistry and chemistry and technology.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD) or FP: GE12y PSP3y(D) HC: SIA	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1 C02 SS: 5	TC: AV IV SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2321-D LECTURER/TUTOR, EARTH SCIENCES (HIGHER EDUCATION)**

Teaches courses in earth sciences to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more earth sciences such as climatology, oceanography, geochemistry, geomorphology, geophysics, geology, mineral exploration and petrology.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD) or FP: GE12y PSP3y(D) HC: SIA	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: T2 L4 SS: 5	TC: A1 SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2321-E LECTURER/TUTOR, FOOD SCIENCES AND TECHNOLOGY (HIGHER EDUCATION)**

Teaches courses in food sciences and technology to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more food sciences such as nutrition, quality control, food engineering and food packaging.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD) or FP: GE12y PSP3y(D) HC: SIA	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: S2
<b>Functions</b>	
MA: I2 A1 P1 D2 R2 M2 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1 SS: 5	TC: AV IV SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2321-F LECTURER/TUTOR, MATERIALS SCIENCES (HIGHER EDUCATION)**

Teaches courses in materials science to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of materials science such as materials processing, metallurgy, rheology and polymer science.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD) or FP: GE12y PSP3-4y(D) HC: SIA	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1 SS: 5	TC: AV IV SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2321-G LECTURER/TUTOR, PHYSICS (HIGHER EDUCATION)**

Teaches courses in physics to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of physics such as classical physics, nuclear physics, solid-state physics, astronomy and instrumental science.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD) or FP: GE12y PSP3y(D) HC: SIA	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1 PA: P1 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1 C11 SS: 5	TC: AV IV SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2321-H LECTURER/TUTOR, ENVIRONMENTAL STUDIES (HIGHER EDUCATION)**

Teaches courses in environmental studies to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of environmental studies such as chemicals in the environment, urban ecology, environmental impact assessment and environmental policy, management and planning.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD) or FP: GE12y PSP3y(D) HC: SIR	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: S2 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: T2 L1 SS: 5	TC: AV IV SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82 &

**2321-I LECTURER/TUTOR, VETERINARY SCIENCE (HIGHER EDUCATION)**

Teaches courses in veterinary science to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of veterinary science such as animal physiology, veterinary medicine and veterinary surgery.

Job Content Factors

<b>Workers</b>	
FP: GE12y PSP6-9y(PG) / (HD) or FP: GE12y PSP5y(D) HC: SIA	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1
<b>Functions</b>	
MA: I2 A1 P1 D2 R2 M2 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1 SS: 5	TC: AV IV SC: 11 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

2321-Z

ACADEMIC TEACHERS AND RESEARCHERS, NATURAL AND APPLIED SCIENCES (HIGHER EDUCATION) nec

This residual group covers higher education teachers and academic researchers in natural and applied sciences not elsewhere classified in Unit Group 2321, e.g.

- Lecturer/Tutor, Forestry (Higher Education)
- Lecturer/Tutor, Horticulture (Higher Education)
- Lecturer/Tutor, Viticulture and Winemaking (Higher Education)
- Research Fellow, Agricultural Sciences
- Research Fellow, Biology
- Research Fellow, Chemistry
- Research Fellow, Earth Sciences
- Research Fellow, Environmental Studies
- Research Fellow, Food Sciences and Technology
- Research Fellow, Forestry
- Research Fellow, Horticulture
- Research Fellow, Materials Science
- Research Fellow, Physics
- Research Fellow, Veterinary Science

2322 ACADEMIC TEACHERS AND RESEARCHERS, ENGINEERING, DATA PROCESSING AND ARCHITECTURE (HIGHER EDUCATION)

This unit group covers occupations concerned with higher education teaching and academic research in engineering, data processing, architecture and related fields.

**Entry Requirements** a diploma, degree or post-graduate qualification in an appropriate branch of engineering, data processing, architecture or a related field.

**Activities include** performing duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

2322-A LECTURER/TUTOR, CHEMICAL ENGINEERING (HIGHER EDUCATION)

Teaches courses in chemical engineering to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of chemical engineering such as thermodynamics, process design, transport phenomena and fuel technology.

Job Content Factors

<b>Workers</b>	
FP: GE12y PSP5-8y(PG) / (HD) or FP: GE12y PSP4y(D) HC: SIA	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1 SS: 5	TC: AV IV SC: 11 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

2322-B LECTURER/TUTOR, CIVIL ENGINEERING (HIGHER EDUCATION)

Teaches courses in civil engineering to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of civil engineering such as structural design, hydraulics and soil mechanics.

Job Content Factors

<b>Workers</b>	
FP: GE12y PSP5-8y(PG) / (HD) or FP: GE12y PSP4y(D) HC: SIA	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1 SS: 5	TC: AV IV SC: 11 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

2322-C LECTURER/TUTOR, ELECTRICAL/ELECTRONIC ENGINEERING (HIGHER EDUCATION)

Teaches courses in electrical/electronics engineering to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of electrical/electronic engineering such as electrical power, high voltage engineering, control systems, communications networks and digital systems.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP5-8y(PG) / (HD) or FP: GE12y PSP4y(D) HC: SIA	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1 C10 SS: 5	TC: AV IV SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2322-D LECTURER/TUTOR, INDUSTRIAL AND PRODUCTION ENGINEERING (HIGHER EDUCATION)**

Teaches courses in production engineering to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of production engineering such as tool engineering, production technology and materials technology.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP5-8y(PG) / (HD) or FP: GE12y PSP4y(D) HC: SIA	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1 SS: 5	TC: AV IV SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2322-E LECTURER/TUTOR, MECHANICAL ENGINEERING (HIGHER EDUCATION)**

Teaches courses in mechanical engineering to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of mechanical engineering such as systems and mechanisms, fluid mechanics, manufacturing technology, refrigeration and air conditioning engineering, agricultural engineering and naval architecture.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP5-8y(PG) / (HD) or FP: GE12y PSP4y(D) HC: SIA	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1 SS: 5	TC: AV IV SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2322-F LECTURER/TUTOR, MINING ENGINEERING (HIGHER EDUCATION)**

Teaches courses in mining engineering to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of mining engineering such as extractive metallurgy, mining design, mine management, mining technology, mineral processing and mine surveying.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP5-8y(PG) / (HD) or FP: GE12y PSP4y(D) HC: SIR	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: T2 L1 SS: 5	TC: AV IV SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2322-G LECTURER/TUTOR, COMPUTER SCIENCE/ELECTRONIC DATA PROCESSING (HIGHER EDUCATION)**

Teaches courses in computer science/electronic data processing to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of computer science/electronic data processing such as programming, systems analysis and computer hardware.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD) or FP: GE12y PSP3y(D) / (Dip) HC: SIA	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I2 P2 T2	EQ: P1 K1
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1 SS: 5	TC: AV IV SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2322-H LECTURER/TUTOR, MATHEMATICS (HIGHER EDUCATION)**

Teaches courses in mathematics to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of mathematics such as linear algebra, vector analysis and mathematical modelling.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD) or FP: GE12y PSP3y(D) HC: SIA	IP: T1y IP: T1y RQ: U1
<b>Materials</b>	
SM: D1 I1 P2	EQ: K2
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1 PA: S1 W2 E1	SA: S1 L2 P1

<i>Context</i>	
EC: L1	TC: AV IV
SS: 5	SC: 11 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

### 2322-I LECTURER/TUTOR, STATISTICS (HIGHER EDUCATION)

Teaches courses in statistics to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of statistics such as probability theory, forecasting and decision theory.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP4-7y(PG) / (HD)	IP: T1y
or FP: GE12y PSP3y(D)	IP: T1y
HC: SIA	RQ: U1

<i>Materials</i>	
SM: D1 I1 P2	EQ: K2

<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M1 L1	
PA: S1 W2 E1	SA: S1 L2 P1

<i>Context</i>	
EC: L1	TC: AV IV
SS: 5	SC: 11 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

### 2322-J LECTURER/TUTOR, ARCHITECTURE (HIGHER EDUCATION)

Teaches courses in architecture to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of architecture such as architectural design, building materials, architectural technology, landscape architecture and professional practice.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP6-10y(HD) / (PG)	IP: T1y
or FP: GE12y PSP5-6y(D)	IP: T1y
HC: ASI	RQ: U1

<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: S2 K2

<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M1 L1	
PA: P2 S1 W2 E1	SA: S1 L2 P1

<i>Context</i>	
EC: L1	TC: AV IV
SS: 5	SC: 11 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82 &amp;

### 2322-K LECTURER/TUTOR, BUILDING (HIGHER EDUCATION)

Teaches courses in building to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of building such as building technology, construction design, building services and quantity surveying.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP5-8y(PG) / (HD)	IP: T1y
or FP: GE12y PSP4y(D)	IP: T1y
HC: SRI	RQ: U1

<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: S2 K2

<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M1 L1	
PA: P2 S1 W2 E2	SA: S1 L2 P1

<i>Context</i>	
EC: L1	TC: AV IV
SS: 5	SC: 11 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

### 2322-L LECTURER/TUTOR, SURVEYING (HIGHER EDUCATION)

Teaches courses in surveying to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of surveying such as geodetic surveying, photogrammetry, engineering surveying and cadastral surveying.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP5-8y(PG) / (HD)	IP: T1y
or FP: GE12y PSP3-4y(D)	IP: T1y
HC: SRI	RQ: U1

<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P2 K2

<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M1 L1	
PA: P2 S1 W2 E2	SA: S1 L2 P1

<i>Context</i>	
EC: T2 L4	TC: AV IV
SS: 5	SC: 11 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

### 2322-Z ACADEMIC TEACHERS AND RESEARCHERS, ENGINEERING, DATA PROCESSING AND ARCHITECTURE (HIGHER EDUCATION) nec

This residual group covers higher education teachers and academic researchers in engineering, data processing, architecture and related fields not elsewhere classified in Unit Group 2322, e.g.

Lecturer/Tutor, Aeronautical Engineering (Higher Education)  
Lecturer/Tutor, Agricultural Engineering (Higher Education)  
Lecturer/Tutor, Communications Engineering (Higher Education)  
Lecturer/Tutor, Geological Engineering (Higher Education)  
Lecturer/Tutor, Materials Engineering (Higher Education)  
Research Fellow, Aeronautical Engineering  
Research Fellow, Agricultural Engineering  
Research Fellow, Architecture  
Research Fellow, Building  
Research Fellow, Chemical Engineering  
Research Fellow, Civil Engineering  
Research Fellow, Communications Engineering  
Research Fellow, Computer Science/Electronic Data Processing  
Research Fellow, Electrical/Electronic Engineering  
Research Fellow, Geological Engineering  
Research Fellow, Industrial and Production Engineering  
Research Fellow, Materials Engineering  
Research Fellow, Mathematics  
Research Fellow, Mechanical Engineering  
Research Fellow, Mining Engineering  
Research Fellow, Statistics  
Research Fellow, Surveying

**2323 ACADEMIC TEACHERS AND RESEARCHERS, SOCIAL SCIENCES AND HUMANITIES (HIGHER EDUCATION)**

This unit group covers occupations concerned with higher education teaching and academic research in the social sciences and humanities.

**Entry Requirements** a degree or higher degree in or related to an appropriate humanities or social science discipline.

**Activities include** performing duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

**2323-A LECTURER/TUTOR, ANTHROPOLOGY (HIGHER EDUCATION)**

Teaches courses in anthropology to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of anthropology such as physical anthropology, social anthropology and ethnography.

Job Content Factors	
Workers	
FP: GE12y PSP4-7y(PG) / (HD)	IP: T1y
HC: SIA	RQ: U1
Materials	
SM: D1 I2 P2 T2	EQ: K2
Functions	
MA: I1 A1 P1 D2 R2 M2 L1	
PA: S1 W2 E2	SA: S1 L2 P1
Context	
EC: T2 L1	TC: AV IV
SS: 5	SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82 &

**2323-B LECTURER/TUTOR, ECONOMICS (HIGHER EDUCATION)**

Teaches courses in economics to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of economics such as econometrics, international economics and labour economics.

Job Content Factors	
<i>Workers</i>	
FP: GE12y PSP4-7y(PG) / (HD)	IP: T1y
or FP: GE12y PSP3y(D)	IP: T1y
HC: SIA	RQ: U1
<i>Materials</i>	
SM: D1 I1 P2	EQ: K2
<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M2 L1	
PA: S1 W2 E1	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: AV IV
SS: 5	SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2323-C LECTURER/TUTOR, GEOGRAPHY (HIGHER EDUCATION)**

Teaches courses in geography to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of geography such as physical geography, human geography and regional geography.

Job Content Factors	
<i>Workers</i>	
FP: GE12y PSP4-7y(PG) / (HD)	IP: T1y
or FP: GE12y PSP3y(D)	IP: T1y
HC: S1A	RQ: U1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: K2
<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M2 L1	
PA: S1 W2 E1	SA: S1 L2 P1
<i>Context</i>	
EC: T2 L1	TC: AV IV
SS: 5	SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2323-D LECTURER/TUTOR, LAW (HIGHER EDUCATION)**

Teaches courses in law to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of law such as constitutional law, criminal law and equity.

Job Content Factors	
<i>Workers</i>	
FP: GE12y PSP6-9y(PG) / (HD)	IP: T1y
or FP: GE12y PSP4-5y(D)	IP: T1y
HC: S1A	RQ: U1
<i>Materials</i>	
SM: D1 I1 P2	EQ:
<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M3 L1	
PA: S1 W2 E1	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: AV IV
SS: 5	SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2323-E LECTURER/TUTOR, LIBRARIANSHIP (HIGHER EDUCATION)**

Teaches courses in librarianship to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of librarianship such as bibliographic organisation, library services, library management and medical librarianship.

**Job Content Factors****Workers**

FP: GE12y PSP4-7y(PG) / (HD)  
or FP: GE12y PSP3y(D)  
HC: SAI

IP: T1y  
IP: T1y  
RQ: U1

**Materials**

SM: D1 I2 P2 T2 EQ: S2 K2

**Functions**

MA: I2 A1 P1 D2 R2 M2 L1  
PA: P2 S1 W2 E2 SA: S1 L2 P1

**Context**

EC: L1 TC: AV IV  
SS: 5 SC: I1 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

### 2323-F LECTURER/TUTOR, POLITICAL SCIENCE (HIGHER EDUCATION)

Teaches courses in political science to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of political science such as Australian politics, international relations and European communism.

**Job Content Factors****Workers**

FP: GE12y PSP4-7y(PG) / (HD)  
or FP: GE12y PSP3y(D)  
HC: SIA

IP: T1y  
IP: T1y  
RQ: U1

**Materials**

SM: D1 I1 P2 EQ:

**Functions**

MA: I1 A1 P1 D2 R2 M3 L1  
PA: S1 W2 E1 SA: S1 L2 P1

**Context**

EC: L1 TC: AV IV  
SS: 5 SC: I1 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

### 2323-G LECTURER/TUTOR, PSYCHOLOGY (HIGHER EDUCATION)

Teaches courses in psychology to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of psychology such as experimental psychology, clinical psychology and social psychology.

**Job Content Factors****Workers**

FP: GE12y PSP4-7y(PG) / (HD)  
or FP: GE12y PSP3y(D)  
HC: SAI

IP: T1y  
IP: T1y  
RQ: U1

**Materials**

SM: D1 I1 P2 EQ: S2 K2

**Functions**

MA: I1 A1 P1 D2 R2 M1 L1  
PA: P2 S1 W2 E1 SA: S1 L2 P1

**Context**

EC: L1 TC: AV IV  
SS: 5 SC: I1 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

### 2323-H LECTURER/TUTOR, SOCIAL/WELFARE WORK (HIGHER EDUCATION)

Teaches courses in social/welfare work to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of social/welfare work such as social administration, child care, welfare systems and social casework.

**Job Content Factors****Workers**

FP: GE12y PSP4-7y(PG) / (HD)  
HC: SAI

IP: T1y  
RQ: U1

**Materials**

SM: D1 I1 P2 EQ:

**Functions**

MA: I2 A1 P1 D2 R2 M3 L1  
PA: S1 W2 E1 SA: S1 L2 P1

**Context**

EC: L1 TC: AV IV  
SS: 5 SC: I1 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

### 2323-J LECTURER/TUTOR, SOCIOLOGY (HIGHER EDUCATION)

Teaches courses in sociology to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of sociology such as industrial sociology, urban sociology, social change and the methodology of social research.

**Job Content Factors****Workers**

FP: GE12y PSP5-7y(PG) / (HD)  
or FP: GE12y PSP4y(D)  
HC: SAI

IP: T1y  
IP: T1y  
RQ: U1

**Materials**

SM: D1 I1 P2 EQ: K2

**Functions**

MA: I1 A1 P1 D2 R2 M2 L1  
PA: S1 W2 E1 SA: S1 L2 P1

**Context**

EC: L1 TC: AV IV  
SS: 5 SC: I1 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

### 2323-J LECTURER/TUTOR, URBAN AND REGIONAL PLANNING (HIGHER EDUCATION)

Teaches courses in urban and regional planning to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of urban and regional planning such as urban sociology, transport planning, planning law and landscape studies.

**Job Content Factors****Workers**

FP: GE12y PSP6-9y(PG) / (HD)  
or FP: GE12y PSP3-5y(D)  
HC: SAI

IP: T1y  
IP: T1y  
RQ: U1

**Materials**

SM: D1 I1 P2 EQ: K2

**Functions**

MA: I2 A1 P1 D2 R2 M2 L1  
PA: C2 S1 W2 E1 SA: S1 L2 P1

**Context**

EC: L1 TC: AV IV  
SS: 5 SC: I1 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

### 2323-K LECTURER/TUTOR, HISTORY (HIGHER EDUCATION)

Teaches courses in history to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more periods or areas of history such as eighteenth century history, Australian history and political history.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD)	IP: T1y
or FP: GE12y PSP3y(D)	IP: T1y
HC: SAI	RQ: U1
<b>Materials</b>	
SM: D1 I1 P2	EQ:
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M3 L1	
PA: S1 W2 E1	SA: S1 L2 P1
<b>Context</b>	
EC: L1	TC: AV IV
SS: 5	SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2323-L LECTURER/TUTOR, CLASSICAL STUDIES (HIGHER EDUCATION)**

Teaches courses in classical studies to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of classical studies such as ancient Greek, Latin, Hellenistic and Roman Art, Greek and Roman historiography.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD)	IP: T1y
HC: SAI	RQ: U1
<b>Materials</b>	
SM: D1 I1 P2	EQ:
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M3 L1	
PA: S1 W2 E1	SA: S1 L2 P1
<b>Context</b>	
EC: L1	TC: AV IV
SS: 5	SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2323-M LECTURER/TUTOR, ENGLISH (HIGHER EDUCATION)**

Teaches courses in English to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of English such as rhetoric, contemporary English, American and Australian literature, English language and linguistics.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD)	IP: T1y
or FP: GE12y PSP3y(D)	IP: T1y
HC: SAI	RQ: U1
<b>Materials</b>	
SM: D1 I1 P2	EQ:
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M3 L1	
PA: S1 W2 E1	SA: S1 L2 P1
<b>Context</b>	
EC: L1	TC: AV IV
SS: 5	SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2323-N LECTURER/TUTOR, MODERN LANGUAGES (HIGHER EDUCATION)**

Teaches courses in one or more modern languages to higher

education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION). Specialises in one or more modern languages such as Arabic, Chinese, Dutch, French, German, Greek, Hebrew, Hindi, Indonesian, Italian, Japanese, Malay, Russian, Spanish, Swedish and Thai.

May specialise in one or more aspects of the language(s) such as literature, conversation and dialects.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD)	IP: T1y
HC: SAI	RQ: U1
<b>Materials</b>	
SM: D1 I1 P2	EQ:
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M3 L1	
PA: S1 W2 E1	SA: S1 L2 P1
<b>Context</b>	
EC: L1	TC: AV IV
SS: 5	SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82 &

**2323-O LECTURER/TUTOR, PHILOSOPHY (HIGHER EDUCATION)**

Teaches courses in philosophy to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of philosophy such as epistemology, metaphysics and logic.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-7y(PG) / (HD)	IP: T1y
HC: SAI	RQ: U1
<b>Materials</b>	
SM: D1 I1 P2	EQ:
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M1 L1	
PA: S1 W2 E1	SA: S1 L2 P1
<b>Context</b>	
EC: L1	TC: AV IV
SS: 5	SC: I1 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2323-Z ACADEMIC TEACHERS AND RESEARCHERS, SOCIAL SCIENCES AND HUMANITIES (HIGHER EDUCATION) nec**

This residual group covers higher education teachers and academic researchers in social sciences and humanities not elsewhere classified in Unit Group 2323, e.g.

Lecturer/Tutor, Aboriginal Studies (Higher Education)  
 Lecturer/Tutor, American Studies (Higher Education)  
 Lecturer/Tutor, Asian Studies (Higher Education)  
 Lecturer/Tutor, Australian Studies (Higher Education)  
 Lecturer/Tutor, Chinese Studies (Higher Education)  
 Lecturer/Tutor, Counselling (Higher Education)  
 Lecturer/Tutor, Criminology (Higher Education)  
 Lecturer/Tutor, Economic History (Higher Education)  
 Lecturer/Tutor, Ethnic Studies (Higher Education)  
 Lecturer/Tutor, History and Philosophy of Science (Higher Education)  
 Lecturer/Tutor, Home Economics (Higher Education)  
 Lecturer/Tutor, Indian Studies (Higher Education)  
 Lecturer/Tutor, Interpreting and Translating (Higher Education)  
 Lecturer/Tutor, Japanese Studies (Higher Education)  
 Lecturer/Tutor, Jewish Studies (Higher Education)  
 Lecturer/Tutor, Linguistics (Higher Education)  
 Lecturer/Tutor, Mediaeval Studies (Higher Education)  
 Lecturer/Tutor, Middle Eastern Studies (Higher Education)

- Lecturer/Tutor, Modern European Studies (Higher Education)

Lecturer/Tutor, Museum Studies (Higher Education)

Lecturer/Tutor, Pacific Studies (Higher Education)

Lecturer/Tutor, Police Studies (Higher Education)

Lecturer/Tutor, Recreation Studies (Higher Education)

Lecturer/Tutor, Revolutionary Studies (Higher Education)

Lecturer/Tutor, Spanish and Latin American Studies (Higher Education)

Research Fellow, Aboriginal Studies

Research Fellow, American Studies

Research Fellow, Anthropology

Research Fellow, Asian Studies

Research Fellow, Australian Studies

Research Fellow, Chinese Studies

Research Fellow, Classical Studies

Research Fellow, Counselling

Research Fellow, Criminology

Research Fellow, Economic History

Research Fellow, Economics

Research Fellow, English

Research Fellow, Geography
- Research Fellow, History

Research Fellow, History and Philosophy of Science

Research Fellow, Indian Studies

Research Fellow, Japanese Studies

Research Fellow, Law

Research Fellow, Librarianship

Research Fellow, Linguistics

Research Fellow, Mediaeval Studies

Research Fellow, Middle Eastern Studies

Research Fellow, Modern Languages

Research Fellow, Modern European Studies

Research Fellow, Museum Studies

Research Fellow, Pacific Studies

Research Fellow, Philosophy

Research Fellow, Political Science

Research Fellow, Psychology

Research Fellow, Revolutionary Studies

Research Fellow, Social/Welfare Work

Research Fellow, Sociology

Research Fellow, Spanish and Latin American Studies

Research Fellow, Urban and Regional Planning

2324 ACADEMIC TEACHERS AND RESEARCHERS, EDUCATION (HIGHER EDUCATION)

This unit group covers occupations concerned with higher education teaching in education and teacher education programs, and academic research into aspects of education.

**Entry Requirements** a diploma, degree or post-graduate qualification in or related to education.

**Activities include** performing duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

2324-A LECTURER/TUTOR, EDUCATION (HIGHER EDUCATION)

Teaches courses in education to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of education such as educational counselling, educational psychology, research methods in education, educational administration, history, sociology and/or philosophy of education.

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP5-8y(PG) / (HD)	IP: T1y
or FP: GE12y PSP4y(D)	IP: T1y
HC: SAI	RQ: U1
<i>Materials</i>	
SM: D1 I1 P2	EQ:
<i>Functions</i>	
MA: I2 A1 P1 D2 R2 MV L1	
PA: S1 W2 E1	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: AV IV
SS: 5	SC: I1 (20y)

LMS: 2000-4000(0 %SE) ASIC: 82

2324-B LECTURER/TUTOR, EARLY CHILDHOOD TEACHER EDUCATION (HIGHER EDUCATION)

Teaches courses to higher education level students training as pre-school and infant teachers.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of early childhood teacher education such as methods of pre-school and/or infant school teaching, learning disabilities in young children, multicultural education, and teaching methods in specific subjects such as reading, writing, mathematics, art, music, drama and dancing.

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP4y(PG)	IP: T1y
or FP: GE12y PSP3-4y(D) / (Dip)	IP: T1y
HC: SAI	RQ: U1
<i>Materials</i>	
SM: D1 I2 P2	EQ: K2
<i>Functions</i>	
MA: I2 A1 P1 D2 R2 M3 L1	
PA: S1 W2 E1	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: AV IV
SS: 5	SC: I1 (20y)

LMS: 2000-4000(0 %SE) ASIC: 82 &

2324-C LECTURER/TUTOR, PRIMARY TEACHER EDUCATION (HIGHER EDUCATION)

Teaches courses to higher education level students training as primary teachers.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of primary teacher education such as multicultural education, curriculum research and planning, educational psychology, and teaching methods in specific subjects such as reading, writing, mathematics, science, social studies, art, music, drama, physical education and librarianship.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP5-8y(PG) / (HD)	IP: T1y
or FP: GE12y PSP3-4y(D) / (Dip)	IP: T1y
HC: SAI	RQ: U1
<b>Materials</b>	
SM: D1 I2 P2	EQ: K2
<b>Functions</b>	
MA: I2 A1 P1 D2 R2 M3 L1	
PA: S1 W2 E1	SA: S1 L2 P1
<b>Context</b>	
EC: L1	TC: AV IV
SS: 5	SC: 11 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2324-D LECTURER/TUTOR, SECONDARY TEACHER EDUCATION (HIGHER EDUCATION)**

Teaches courses to higher education level students training as secondary teachers.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of secondary teacher education such as multicultural education, curriculum research and planning, educational psychology, and teaching methods in specific subjects such as history, geography, English, modern languages, economics, physical education, art, speech and drama, home economics, religious education, music, mathematics, science, careers education and librarianship.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP5-8y(PG) / (HD)	IP: T1y
or FP: GE12y PSP3-4y(D) / (Dip)	IP: T1y
HC: SAI	RQ: U1
<b>Materials</b>	
SM: D1 I2 P2	EQ:
<b>Functions</b>	
MA: I2 A1 P1 D2 R2 MV L1	
PA: S1 W2 E1	SA: S1 L2 P1
<b>Context</b>	
EC: L1	TC: AV IV
SS: 5	SC: 11 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2324-E LECTURER/TUTOR, SPECIAL TEACHER EDUCATION (HIGHER EDUCATION)**

Teaches courses to higher education level students training as special school teachers.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of special teacher education such as the psychology of exceptional children, learning and development disabilities, behaviour problems in the classroom, and reading assessment and teaching.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP5-8y(PG) / (HD)	IP: T1y
or FP: GE12y PSP3-4y(D) / (Dip)	IP: T1y
HC: SAI	RQ: U1
<b>Materials</b>	
SM: D1 I2 P2	EQ: S2
<b>Functions</b>	
MA: I2 A1 P1 D2 R2 M3 L1	
PA: P2 S1 W2 E2	SA: S1 L2 P1
<b>Context</b>	
EC: L1	TC: AV IV
SS: 5	SC: 11 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2324-F LECTURER/TUTOR, TERTIARY TEACHER EDUCATION (HIGHER EDUCATION)**

Teaches courses to higher education level students training as TAFE or higher education teachers.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of tertiary teacher education such as the nature of adult learning, advanced teaching techniques, educational management and leadership, organisation and administration of tertiary education.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-5y(PG)	IP: T1y E5y
or FP: GE12y PSP3-4y(D) / (Dip)	IP: T1y E5y
HC: SAI	RQ: U1
<b>Materials</b>	
SM: D1 I1 P2	EQ:
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M3 L1	
PA: S1 W2 E1	SA: S1 L2 P1
<b>Context</b>	
EC: L1	TC: AV IV
SS: 5	SC: 11 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2324-Z ACADEMIC TEACHERS AND RESEARCHERS, EDUCATION (HIGHER EDUCATION) nec**

This residual group covers higher education academic teachers and researchers in education not elsewhere classified in Unit Group 2324, e.g.

Research Fellow, Education

**2325 ACADEMIC TEACHERS AND RESEARCHERS, MEDICINE AND HEALTH (HIGHER EDUCATION)**

This unit group covers occupations concerned with higher education teaching and academic research in the medical and paramedical sciences.

**Entry Requirements** a diploma, degree or higher degree in medicine, dentistry or an appropriate paramedical, pure or applied science.

**Activities include** performing duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

### 2325-A LECTURER/TUTOR, MEDICAL SCIENCES (HIGHER EDUCATION)

Teaches courses in medical sciences to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION). Specialises in one or more of the medical sciences such as medical chemistry, medical physics, medical psychology and sociology, anatomy, physiology, biochemistry, neuroscience, pharmacology, pathology, microbiology, surgery, anaesthetics, dermatology, paediatrics, psychiatry, ophthalmology, radiology, obstetrics and gynaecology, forensic medicine and community health.

#### Job Content Factors

##### Workers

FP: GE12y PSP4-11y(PG) / (HD) IP: T1-2y  
or FP: GE12y PSP3-6y(D) IP: T1-2y  
HC: ISE RQ: U1

##### Materials

SM: D1 I1 P2 T2 EQ: P1 K2

##### Functions

MA: I1 A1 P1 D2 R2 MV L1  
PA: P2 S1 W2 E2 SA: S1 L2 P1

##### Context

EC: L1 TC: AV IV  
SS: 5 SC: I1 (20y)

LMS: 2000-4000(0 %SE) ASIC: 82

### 2325-B LECTURER/TUTOR, DENTISTRY (HIGHER EDUCATION)

Teaches courses in dentistry to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more aspects of dentistry such as preventive dentistry, dental prosthetics and orthodontics.

#### Job Content Factors

##### Workers

FP: GE12y PSP7-10y(HD) IP: T1y  
or FP: GE12y PSP5y(D) IP: T1y  
HC: SAI RQ: U1

##### Materials

SM: D1 I1 P2 T2 EQ: P1 M2

##### Functions

MA: I1 A1 P1 D2 R2 MV L1  
PA: P1 S1 W2 E2 SA: S1 L2 P1

##### Context

EC: L1 TC: AV IV  
SS: 5 SC: I1 (20y)

LMS: 2000-4000(0 %SE) ASIC: 82

### 2325-C LECTURER/TUTOR, MEDICAL TECHNOLOGY (HIGHER EDUCATION)

Teaches courses in medical technology to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of medical technology such as electron microscopy, medical photography and parasitology.

#### Job Content Factors

##### Workers

FP: GE12y PSP4-7y(PG) / (HD) IP: T1y  
or FP: GE12y PSP3y(D) IP: T1y  
HC: SAI RQ: U1

##### Materials

SM: D1 I2 P2 T2 EQ: P1 S2 K2

#### Functions

MA: I2 A1 P1 D2 R2 M2 L1  
PA: P2 S1 W2 E2 SA: S1 L2 P1

#### Context

EC: L1 TC: AV IV  
SS: 5 SC: I1 (20y)

LMS: 2000-4000(0 %SE) ASIC: 82

### 2325-D LECTURER/TUTOR, NURSING (HIGHER EDUCATION)

Teaches courses in nursing to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of nursing such as material and infant care, community nursing and human anatomy.

#### Related Occupation

Occupation 2410-A : Nurse Educator

#### Job Content Factors

##### Workers

FP: GE12y PSP3-4y (Dip) IP: E2-4y  
HC: SAI RQ: U1

##### Materials

SM: D1 I2 P2 T2 EQ: S1

##### Functions

MA: I2 A2 P1 D2 R2 M3 L1  
PA: P2 S1 W2 E2 SA: S1 L2 P1

##### Context

EC: L1 TC: AV IV  
SS: 5 SC: I1 (20y)

LMS: 2000-4000(0 %SE) ASIC: 82

### 2325-E LECTURER/TUTOR, NUTRITION AND DIETETICS (HIGHER EDUCATION)

Teaches courses in nutrition and dietetics to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of nutrition and dietetics such as food technology and production, microbiology of food and therapeutic dietetics.

#### Job Content Factors

##### Workers

FP: GE12y PSP4-7y(PG) / (HD) IP: T1y  
or FP: GE12y PSP3y(D) IP: T1y  
HC: SAI RQ: U1

##### Materials

SM: D1 I2 P2 T2 EQ: S2

##### Functions

MA: I2 A1 P1 D2 R2 M3 L1  
PA: P2 S1 W2 E2 SA: S1 L2 P1

##### Context

EC: L1 TC: AV IV  
SS: 5 SC: I1 (20y)

LMS: 2000-4000(0 %SE) ASIC: 82

### 2325-F LECTURER/TUTOR, PHARMACY (HIGHER EDUCATION)

Teaches courses in pharmacy to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of pharmacy such as pharmaceutical biology, pharmaceutical chemistry and pharmacology.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP4-7y(PG) / (HD) or FP: GE12y PSP3y(D) HC: SIA	IP: T1y IP: T1y RQ: U1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: S2
<i>Functions</i>	
MA: I2 A1 P1 D2 R2 M2 L1 PA: P2 S1 W2 E2	SA: S1 L2 P1
<i>Context</i>	
EC: L1 SS: 5	TC: AV IV SC: 11 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2325-Z ACADEMIC TEACHERS AND RESEARCHERS, MEDICINE AND HEALTH (HIGHER EDUCATION) nec**

This residual group covers higher education teachers and academic researchers in medicine and health not elsewhere classified in Unit Group 2325, e.g.

Lecturer/Tutor, Audiology (Higher Education)  
Lecturer/Tutor, Chiropody/Podiatry (Higher Education)  
Lecturer/Tutor, Dental Therapy (Higher Education)  
Lecturer/Tutor, Occupational Therapy (Higher Education)  
Lecturer/Tutor, Optometry (Higher Education)  
Lecturer/Tutor, Orthoptics (Higher Education)  
Lecturer/Tutor, Medical Nucleography (Higher Education)  
Lecturer/Tutor, Medical Radiography (Higher Education)  
Lecturer/Tutor, Physiotherapy (Higher Education)  
Lecturer/Tutor, Prosthetics and Orthotics (Higher Education)  
Lecturer/Tutor, Speech Therapy (Higher Education)  
Research Fellow, Audiology  
Research Fellow, Dentistry  
Research Fellow, Medical Sciences  
Research Fellow, Nutrition and Dietetics  
Research Fellow, Occupational Therapy  
Research Fellow, Optometry  
Research Fellow, Pharmacy  
Research Fellow, Physiotherapy  
Research Fellow, Speech Therapy

**2326 ACADEMIC TEACHERS AND RESEARCHERS, ARTISTIC AND LITERARY FIELDS (HIGHER EDUCATION)**

This unit group covers occupations concerned with higher education teaching and academic research in the artistic,

**Entry Requirements** a diploma, degree or post-graduate qualification in or related to the artistic, literary or performing arts and related fields plus appropriate experience in some cases.

**Activities include** performing duties as described under Master Title LECTURER/TUTOR (Higher Education).

**2326-A LECTURER/TUTOR, DESIGN (HIGHER EDUCATION)**

Teaches courses in design to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION). Specialises in one or more areas of design such as graphic design, fashion design, interior design and industrial design.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP3-4y(Dip) / (D) or FP: GE12y PSP4-5y(PG) HC: ASI	IP: T1y E2-5y IP: T1y E2-5y RQ: Q2 U1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: S1
<i>Functions</i>	
MA: I2 A1 P1 D2 R2 M3 L1 PA: U2 S1 W2 E2	SA: S1 P1
<i>Context</i>	
EC: L1 SS: 5	TC: AV IV SC: 11 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2326-B LECTURER/TUTOR, DRAMATIC ARTS (HIGHER EDUCATION)**

Teaches courses in dramatic arts to higher education level students. Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of dramatic art such as acting, technical production, theatrical design and directing.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP3y(D) / (Dip) or FP: GE12y PSP4-7y(PG) / (HD) HC: ASI	IP: E2-5y IP: E2-5y RQ: Q1 U1
<i>Materials</i>	
SM: D1 I2 P2	EQ:
<i>Functions</i>	
MA: I2 A1 P1 D2 R2 M3 L1 PA: S2 W1 E1	SA: S1 L2 P1
<i>Context</i>	
EC: L1 SS: 5	TC: AV IV SC: 11 (20y)
LMS: 2000-4000(0 %SE)	ASIC: 82

**2326-C LECTURER/TUTOR, FINE ARTS (HIGHER EDUCATION)**

Teaches courses in fine arts to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more of the fine arts such as painting, sculpture, printmaking, photography, ceramics, gold and silversmithing, fibres and fabrics, and/or one or more periods or types of art such as Renaissance art and cubism.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP4-7y(PG) / (HD) or FP: GE12y PSP3-4y(Dip) / (D) HC: ASI	IP: T1y E2-5y IP: T1y E2-5y RQ: Q2 U1 V2

<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P2 S2
<i>Functions</i>	
MA: I2 A1 P1 D2 R2 M3 L1	
PA: P2 S1 W2 E2	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: AV IV
SS: 5	SC: 11 (20y)
LMS: 2000-4000(0 %SE)	
ASIC: 82	

**2326-D LECTURER/TUTOR, MUSIC (HIGHER EDUCATION)**

Teaches courses in music to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more instruments, periods or aspects of music such as violin, piano, baroque music, jazz studies, opera and music theatre, conducting, composition and orchestration.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP4-8y(PG) / (HD)	IP: T1y E2-5y
or FP: GE12y PSP3-4y(D)	IP: T1y E2-5y
HC: ASI	RQ: Q1 U1 A2
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: I2 A1 P1 D2 R2 M3 L1	
PA: P1 S1 W2 E2	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: AV IV
SS: 5	SC: 11 (20y)
LMS: 2000-4000(0 %SE)	
ASIC: 82 &	

**2326-E LECTURER/TUTOR, PROFESSIONAL WRITING AND JOURNALISM (HIGHER EDUCATION)**

Teaches courses in professional writing and journalism to higher education level students.

Performs duties as described under Master Title LECTURER/TUTOR (HIGHER EDUCATION).

May specialise in one or more areas of professional writing and journalism such as scriptwriting, fiction writing, journalism and the law, sub-editing and newspaper layout.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP4-7y(HD) / (PG)	IP: T1y E2-5y
or FP: GE12y PSP3y(D)	IP: T1y E2-5y
HC: ASI	RQ: Q2 U1
<i>Materials</i>	
SM: D1 I2 P2	EQ: P2 K2
<i>Functions</i>	
MA: I2 A1 P1 D2 R2 M3 L1	
PA: S1 W2 E1	SA: S1 L2 P1
<i>Context</i>	
EC: L1	TC: AV IV
SS: 5	SC: 11 (20y)
LMS: 2000-4000(0 %SE)	
ASIC: 82	

**2326-Z ACADEMIC TEACHERS AND RESEARCHERS, ARTISTIC AND LITERARY FIELDS (HIGHER EDUCATION) nec**

This residual group covers higher education teachers and academic researchers in the artistic, literary and performing arts and related fields not elsewhere classified in Unit Group 2326, e.g.

Lecturer/Tutor, Dance (Higher Education)

Lecturer/Tutor, Media Studies/Communication (Higher Education)

Research Fellow, Design

Research Fellow, Dramatic Arts

Research Fellow, Journalism

Research Fellow, Media Studies/Communication

Research Fellow, Music

**2327 ACADEMIC RESEARCH ASSISTANTS**

This unit group covers occupations concerned with assisting in the conduct of research at institutions of higher education.

**Entry Requirements** a diploma, degree or post-graduate qualification in or related to the appropriate discipline, or other studies or expertise relevant to the specific research project concerned.

**Activities include** performing duties as described under Master Title ACADEMIC RESEARCH ASSISTANT.

**2327-A ACADEMIC RESEARCH ASSISTANT, MANAGEMENT, ADMINISTRATION AND RELATED FIELDS**

Assists in the conduct of research in management, administration or related fields at an institution of higher education under the supervision of a member of the academic teaching or research staff.

Performs duties as described under Master Title ACADEMIC RESEARCH ASSISTANT.

May specialise within a particular area in accordance with qualifications and the supervisor's research interests.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (PG)	IP: T3m
HC: SIA	RQ:
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: S2 K2
<i>Functions</i>	
MA: I2 A2 P2 D2 R3 M2 L2	
PA: P2 S1 W2 E1	SA: S1
<i>Context</i>	
EC: L1	TC: A1
SS: 2	SC: 10 (vy)
LMS: 1000-3000(0 %SE)	
ASIC: 82	

**2327-B ACADEMIC RESEARCH ASSISTANT,  
NATURAL AND APPLIED SCIENCES**

Assists in the conduct of research in the natural and applied sciences including agricultural sciences, biological sciences, chemistry, earth sciences, food sciences and technology, materials science, physics, environmental studies and veterinary science at an institution of higher education under the supervision of a member of the academic teaching or research staff.

Performs duties as described under Master Title ACADEMIC RESEARCH ASSISTANT.

May specialise within a particular area in accordance with qualifications and the supervisor's research interests.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3-4y(D) / (PG)	IP: T3m
HC: ISA	RQ:
<b>Materials</b>	
SM: D1 I2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I2 A2 P2 D2 R3 MV L2	
PA: P1 S1 W2 E2	SA: S1
<b>Context</b>	
EC: L1	TC: A1
SS: 2	SC: 10 (vy)
LMS: 1000-3000(0 %SE)	ASIC: 82

**2327-C ACADEMIC RESEARCH ASSISTANT,  
MATHEMATICAL AND COMPUTER  
SCIENCES**

Assists in the conduct of research in mathematical and computer sciences including computer science/electronic data processing, mathematics and statistics at an institution of higher education under the supervision of a member of the academic teaching or research staff.

Performs duties as described in the definition for Master Title ACADEMIC RESEARCH ASSISTANT.

May specialise within a particular area in accordance with qualifications and the supervisor's research interests.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3-4y(D) / (PG)	IP: T3m
HC: ISA	RQ:
<b>Materials</b>	
SM: D1 I2 T2	EQ: K1
<b>Functions</b>	
MA: I2 A2 P2 D2 R3 M1 L2	
PA: P2 S1 W2 E1	SA: S1
<b>Context</b>	
EC: L1	TC: A1
SS: 2	SC: 10 (vy)
LMS: 1000-3000(0 %SE)	ASIC: 82

**2327-D ACADEMIC RESEARCH ASSISTANT,  
ENGINEERING**

Assists in the conduct of research in any branch of engineering including chemical, civil, electrical/electronics, industrial and production, mechanical, and mining engineering at an institution of higher education under the supervision of a member of the academic teaching or research staff.

Performs duties as described under Master Title ACADEMIC RESEARCH ASSISTANT.

May specialise within a particular area in accordance with qualifications and the supervisor's research interests.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T3m
HC: IRA	RQ:

<b>Materials</b>	
SM: D1 I2 T2	EQ: P1 K2
<b>Functions</b>	
MA: I2 A2 P2 D2 R3 MV L2	
PA: P1 S1 W2 E2	SA: S1
<b>Context</b>	
EC: L1	TC: A1
SS: 2	SC: 10 (vy)
LMS: 1000-3000(0 %SE)	ASIC: 82

**2327-E ACADEMIC RESEARCH ASSISTANT,  
ARCHITECTURE, BUILDING AND  
RELATED FIELDS**

Assists in the conduct of research in architecture, building or related fields including surveying and environmental studies at an institution of higher education under the supervision of a member of the academic teaching or research staff.

Performs duties as described under Master Title ACADEMIC RESEARCH ASSISTANT.

May specialise within a particular area in accordance with qualifications and the supervisor's research interests.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4-5y(D) / (PG)	IP: T3m
HC: IAR	RQ:
<b>Materials</b>	
SM: D1 I2 T2	EQ: P2 K2
<b>Functions</b>	
MA: I2 A2 P2 D2 R3 MV L2	
PA: P2 S1 W2 E2	SA: S1
<b>Context</b>	
EC: L1	TC: A1
SS: 2	SC: 10 (vy)
LMS: 1000-3000(0 %SE)	ASIC: 82

**2327-F ACADEMIC RESEARCH ASSISTANT,  
SOCIAL SCIENCES**

Assists in the conduct of research in the social sciences including anthropology, economics, geography, history, law, librarianship, political science, psychology, social/welfare work, and urban and regional planning at an institution of higher education under the supervision of a member of the academic teaching or research staff.

Performs duties as described under Master Title ACADEMIC RESEARCH ASSISTANT.

May specialise within a particular area in accordance with qualifications and the supervisor's research interests.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3-4y(D) / (PG)	IP: T3m
HC: ISA	RQ:
<b>Materials</b>	
SM: D1 I2 P1	EQ: K2
<b>Functions</b>	
MA: I2 A2 P2 D2 R3 MV L2	
PA: S1 W2 E1	SA: S1
<b>Context</b>	
EC: T2 L1	TC: A1
SS: 2	SC: 10 (vy)
LMS: 1000-3000(0 %SE)	ASIC: 82

**2327-G ACADEMIC RESEARCH ASSISTANT,  
HUMANITIES**

Assists in the conduct of research in the humanities including English, classical studies, linguistics, modern languages and philosophy at an institution of higher education under the supervision of a member of the academic teaching or research staff.

Performs duties as described under Master Title ACADEMIC RESEARCH ASSISTANT.

May specialise within a particular area in accordance with qualifications and the supervisor's research interests.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (PG)	IP: T3m
HC: IAS	RQ:
<i>Materials</i>	
SM: D1 I2 P2	EQ: K2
<i>Functions</i>	
MA: I2 A2 P2 D2 R3 M3 L2	
PA: S1 W2 E1	SA: S1
<i>Context</i>	
EC: L1	TC: A1
SS: 2	SC: 10 (vy)
LMS: 1000-3000(0 %SE)	ASIC: 82

### 2327-H ACADEMIC RESEARCH ASSISTANT, RELIGIOUS STUDIES

Assists in the conduct of research in religious studies at an institution of higher education under the supervision of a member of the academic teaching or research staff.

Performs duties as described under Master Title ACADEMIC RESEARCH ASSISTANT.

May specialise within a particular area in accordance with qualifications and the supervisor's research interests.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (Dip)	IP: T3m
HC: ISA	RQ:
<i>Materials</i>	
SM: D1 I2 P1	EQ:
<i>Functions</i>	
MA: I2 A2 P2 D2 R3 M3 L2	
PA: S1 W2 E1	SA: S1
<i>Context</i>	
EC: L1	TC: A1
SS: 2	SC: 10 (vy)
LMS: 1000-3000(0 %SE)	ASIC: 82 &

### 2327-I ACADEMIC RESEARCH ASSISTANT, EDUCATION

Assists in the conduct of research in education including early childhood, primary, secondary, technical, tertiary and special education at an institution of higher education under the supervision of a member of the academic teaching or research staff.

Performs duties as described under Master Title RESEARCH ASSISTANT (HIGHER EDUCATION).

May specialise within a particular area in accordance with qualifications and the supervisor's research interests.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (Dip)	IP: T3m
or FP: GE12y PSP4-5y(PG)	IP:
HC: ISA	RQ:
<i>Materials</i>	
SM: D1 I2 P1	EQ: K2
<i>Functions</i>	
MA: I2 A2 P2 D2 R3 MV L2	
PA: S1 W2 E1	SA: S1
<i>Context</i>	
EC: L1	TC: A1
SS: 2	SC: 10 (vy)
LMS: 1000-3000(0 %SE)	ASIC: 82

### 2327-J ACADEMIC RESEARCH ASSISTANT, MEDICAL SCIENCES

Assists in the conduct of research in the medical sciences at an institution of higher education under the supervision of a member of the academic teaching or research staff.

Performs duties as described under Master Title ACADEMIC RESEARCH ASSISTANT.

May specialise within a particular area in accordance with qualifications and the supervisor's research interests.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (PG)	IP: T3m
HC: IRA	RQ:
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: I2 A2 P2 D2 R3 MV L2	
PA: P2 S1 W2 E2	SA: S1
<i>Context</i>	
EC: L1	TC: A1
SS: 2	SC: 10 (vy)
LMS: 1000-3000(0 %SE)	ASIC: 82

### 2327-K ACADEMIC RESEARCH ASSISTANT, DENTISTRY

Assists in the conduct of research in dentistry at an institution of higher education under the supervision of a member of the academic teaching or research staff.

Performs duties as described under Master Title ACADEMIC RESEARCH ASSISTANT.

May specialise within a particular area in accordance with qualifications and the supervisor's research interests.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (PG)	IP: T3m
HC: ISA	RQ:
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: I2 A2 P2 D2 R3 MV L2	
PA: P2 S1 W2 E2	SA: S1
<i>Context</i>	
EC: L1	TC: A1
SS: 2	SC: 10 (vy)
LMS: 1000-3000(0 %SE)	ASIC: 82

### 2327-L ACADEMIC RESEARCH ASSISTANT, PARAMEDICAL SCIENCES

Assists in the conduct of research in the paramedical sciences such as medical technology, nursing, nutrition and dietetics, and pharmacy at an institution of higher education under the supervision of a member of the academic teaching or research staff.

Performs duties as described under Master Title ACADEMIC RESEARCH ASSISTANT.

May specialise within a particular area in accordance with qualifications and the supervisor's research interests.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (PG)	IP: T3m
HC: IRS	RQ:
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P2 K2
<i>Functions</i>	
MA: I2 A2 P2 D2 R3 M3 L2	
PA: P2 S1 W2 E2	SA: S1
<i>Context</i>	
EC: L1	TC: A1
SS: 2	SC: 10 (vy)
LMS: 1000-3000(0 %SE)	ASIC: 82

### 2327-M ACADEMIC RESEARCH ASSISTANT, ARTISTIC, LITERARY AND SPORTING FIELDS

Assists in the conduct of research in the artistic, literary and performing arts and related fields including design, dramatic arts, fine arts, journalism and music at an institution of higher education under the supervision of a member of the academic teaching or research staff.

Performs duties as described under Master Title **ACADEMIC RESEARCH ASSISTANT**.

May specialise within a particular area in accordance with qualifications and the supervisor's research interests.

#### *Job Content Factors*

##### *Workers*

FP: GE12y PSP3-5y(D) / (PG)

IP: T3m

HC: AIS

RQ: V2 A2

##### *Materials*

SM: D1 I2 P2 T2

EQ: P2 K2

##### *Functions*

MA: I2 A2 P2 D2 R3 M3 L2

PA: P2 S1 W2 E2

SA: S1

##### *Context*

EC: L1

TC: A1

SS: 2

SC: 10 (vy)

LMS: 1000-3000(0 %SE)

ASIC: 82

#### **2327-Z**

#### **ACADEMIC RESEARCH ASSISTANTS nec**

This residual group covers academic research assistants not elsewhere classified in Unit Group 2327, e.g.

Academic Research Assistant, Maritime Studies

Academic Research Assistant, Strategic Studies

### **2329 OTHER HIGHER EDUCATION TEACHING AND RELATED OCCUPATIONS**

This residual unit group covers occupations concerned with higher education teaching and academic research not elsewhere classified in Minor Group 232.

**Activities include** performing duties as described under Master Title **LECTURER/TUTOR (HIGHER EDUCATION)**.

#### **2329-A**

#### **LECTURER/TUTOR, RELIGIOUS STUDIES (HIGHER EDUCATION)**

Teaches courses in religious studies to higher education level students.

Performs duties as described under Master Title **LECTURER/TUTOR (HIGHER EDUCATION)**.

May specialise in one or more areas of religious studies such as biblical studies, eastern religion and philosophy, the history of religions, religion and social change.

#### *Job Content Factors*

##### *Workers*

FP: GE12y PSP4-7y(PG) / (HD)

IP: T1y

or FP: GE12y PSP3-4y(D) / (Dip)

IP: T1y

HC: SAI

RQ: U1

##### *Materials*

SM: D1 I2 P2

EQ:

##### *Functions*

MA: I2 A1 P1 D2 R2 M3 L1

PA: S1 W2 E1

SA: S1 L2 P1

##### *Context*

EC: L1

TC: AV IV

SS: 5

SC: 11 (20y)

LMS: 2000-4000(0 %SE)

ASIC: 82

#### **2329-Z**

#### **HIGHER EDUCATION TEACHING AND RELATED OCCUPATIONS nec**

This residual group covers higher education teaching and related occupations not elsewhere classified in Minor Group 232, e.g.

Lecturer/Tutor, Maritime Studies (Higher Education)

Lecturer/Tutor, Strategic Studies (Higher Education)

Research Fellow, Maritime Studies

Research Fellow, Religious Studies

Research Fellow, Strategic Studies

## MINOR GROUP 233

### TEACHING SERVICES OCCUPATIONS

Teaching Services Occupations are classified in the following unit groups.

- 2330 School Teacher Services Occupations
- 2331 TAFE Teacher Services Occupations
- 2339 Other Teaching Services Occupations

#### 2330 SCHOOL TEACHER SERVICES OCCUPATIONS

This unit group covers occupations concerned with providing support and co-ordinative services to primary and secondary schools and school teachers.

**Entry Requirements** primary or secondary teaching qualifications plus 1-10 years' teaching experience.

**Activities include** acting as a specialist or consultant in a particular facet of education and providing advice to schools and to administrative officials of an education department; providing teacher assistance, and undertaking school reviews and teacher assessment in primary and secondary schools.

#### 2330-A EDUCATION OFFICER Advisory Teacher; Subject Consultant

Acts as a specialist or consultant in a particular facet of education and provides advice to schools and to administrative officials of an education department.

Consults with teachers, principals and administrative officials of school system to co-ordinate programs, provide specialist advice or serve as a resource person by virtue of skills and competencies unique to his/her relevant area, branch or section. Confers with administrators and teaching staff at all levels and serves on committees to identify, plan, develop or modify present and future needs within the educational system or administration. Applies knowledge of learning processes and school structures to develop operational or training programs and submits them for decision and funding. Advises and assists in selection of school text books and equipment, and arranges distribution of materials to schools. Prepares reports and information papers within own field of specialisation. Maintains awareness of new developments in education. Organises and conducts workshops and conferences to train teaching and administrative staff in new programs and methods.

May specialise in a particular area and type of service provided and be designated accordingly, e.g.

- Art Advisory Teacher
- Audio-Visual Officer
- Curriculum Advisory Officer
- Education Officer, Planning
- Education Officer, Special Education
- Languages Advisory Teacher
- Subject Consultant, Biological Sciences
- Subject Consultant, English

#### *Job Content Factors*

##### *Workers*

FP: GE12y PSP3-4y(D) / (Dip)	IP: T1y E1-3y
or FP: GE12y PSP5y(PG)	IP: T1y E1-3y
HC: SAI	RQ: U1

##### *Materials*

SM: D1 I1 P2	EQ:
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##### *Functions*

MA: I2 A2 P1 D2 R2 M3 L1	
PA: S1 E1	SA: S1 P2 B2 R4

##### *Context*

EC: M2 L1	TC: A1
SS: 7	SC: I0 (12y)

LMS: 50-100 (0 %SE)

ASIC: 82

#### 2330-B SCHOOL INSPECTOR, PRIMARY School Superintendent, Primary

Provides teacher assistance and undertakes school reviews and teacher assessment in primary schools in a district.

Provides educational leadership, advice and consultation to teachers. Evaluates and reviews educational effectiveness of primary schools. Assesses professional competence and aptitude of teachers. Advises on changes in school accommodation and on closure of schools. Investigates and reports on matters affecting education in the district concerned and is involved in the determination of policy related to educational issues. Organises and conducts workshops and conferences to train teaching and administrative staff in new programs and methods.

#### *Job Content Factors*

##### *Workers*

FP: GE12y PSP3-4y(D) / (Dip)	IP: E5-10y
or FP: GE12y PSP5y(PG)	IP: E5-10y
HC: SIA	RQ: L1 P2 U1

##### *Materials*

SM: D2 I2 P1	EQ: V2
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Functions

MA: I2 A2 P1 D2 R2 M3 L1

PA: C2 S1 W2 E1

SA: S1 P2 M1 R3

Context

EC: T2 L1

TC: A1

SS: 7

SC: 10 (12y)

LMS: 200-300 (0 %SE)

ASIC: 82

**2330-C SCHOOL INSPECTOR, SECONDARY  
School Superintendent, Secondary**

Provides teacher support and assistance, and assists with school reviews, teacher assessment and educational planning in respect of the teaching of one or more particular subjects in secondary schools.

Assists in and co-ordinates the development of subject curricula and teaching. Reports on needs arising from subject development. Advises schools on matters of curriculum, administration and organisation, and is involved in the determination of policy related to educational issues. Assists in accountability and evaluation procedures such as school reviews and the assessment of professional competence and aptitude of teachers. Acts as a consultant to assist teachers with their professional duties, investigating and reporting on matters affecting education in the subject area or generally.

Organises and conducts workshops and conferences to train teaching and administrative staff in new programs and methods.

Job Content Factors

Workers

FP: GE12y PSP3-4y(D) / (Dip)

or FP: GE12y PSP4y(PG)

HC: SIA

IP: E5-10y

IP: E5-10y

RQ: L1 P2 U1

Materials

SM: D2 I2 P1

EQ: V2

Functions

MA: I2 A2 P1 D2 R2 MV L1

PA: C2 S1 E1

SA: S1 P2 M2 R3

Context

EC: T2 M2 L1

TC: A1

SS: 7

SC: 10 (12y)

LMS: 200-300 (0 %SE)

ASIC: 82

**2330-Z SCHOOL TEACHER SERVICES  
OCCUPATIONS nec**

This residual group covers school teacher services occupations not elsewhere classified in Unit Group 2330, e.g.

Home-School Liaison Officer

Pre-School Adviser

**2331 TAFE TEACHER SERVICES OCCUPATIONS**

This unit group covers occupations concerned with the provision of teacher services to TAFE colleges and personnel.

**Entry Requirements** primary, secondary or tertiary teaching qualifications with 2-5 years of successful classroom teaching experience in addition to experience in educational planning.

**Activities include** organising, conducting and/or facilitating operation of non-qualification in-service programs and activities designed to develop the professional competence of TAFE teachers and administrators; developing course curricula and associated teaching materials for use by TAFE colleges.

**2331-A EDUCATION OFFICER, CURRICULUM  
DEVELOPMENT (TAFE)  
Planning Officer (TAFE)**

Develops course curricula and associated teaching materials for use by TAFE colleges, performing any combination of the following duties.

Maintains liaison with industrial organisations. Conducts job analysis in industry by interview and other survey techniques to establish training needs. Develops objectives appropriate to training needs. Plans sequencing of instructional content for subjects and courses. Documents subjects and courses developed. Develops teaching materials, instructional notes and teaching aids. Evaluates commercially produced teaching materials and aids. Monitors and evaluates recently introduced courses. Develops assessment instruments to evaluate student achievement in TAFE courses. Specialises in one or more subjects in a particular field.

Job Content Factors

Workers

FP: GE12y PSP3-4y(D) / (Dip)

or FP: GE12y PSP4y(PG)

HC: SE

IP: E2-5y

IP: E2-5y

RQ: L1 P2 U1

Materials

SM: D2 I1 P2

EQ: V2

Functions

MA: I2 A2 P1 D2 R3 MV L1

PA: C2 S1 W2 E1

SA: S1 P2 M2 R4-3

Context

EC: M2 L1

TC: A1

SS: 7

SC: 10 (12y)

LMS: 200-250 (0 %SE)

ASIC: 82

**2331-B EDUCATION OFFICER, STAFF  
DEVELOPMENT (TAFE)**

Organises, conducts and/or facilitates operation of non-qualification in-service programs and activities designed to develop the professional, technical and personal competence of TAFE teachers and administrators.

Teaches one or more subjects by means of lectures, seminars, small group interactions, case studies, audio-visual and other teaching aids and equipment. Plans and conducts short courses suited to the needs of particular technical institutions or of particular sub-groups of TAFE teachers and administrators, covering areas such as management in TAFE, administrative procedures, financial management, decision making leadership and human relations. Participates in organisational development projects within colleges. Arranges in-service activities including courses to be conducted by specialist lecturers; facilitates conduct of college based

in-service courses, arranges for individual TAFE teachers to engage in interstate and intrastate conferences, study projects and technological or industrial updating programs.

May be involved in organising and conducting short residential courses. May provide advisory or counselling service on career development and related matters to TAFE personnel. May carry out evaluation of staff development activities and programs.

#### *Job Content Factors*

##### *Workers*

FP: GE12y PSP3-4y(D) / (Dip)

or FP: GE12y PSP4y(PG)

HC: SAI

IP: E2-5y

IP: E2-5y

RQ: L1 U1

#### *Materials*

SM: D2 I1 P1

EQ: S2 V2

#### *Functions*

MA: I2 A2 P1 D2 R3 M3 L1

PA: U2 C2 S1 E1

SA: S1 P2 M2 R4

#### *Context*

EC: M2 L1

TC: A1

SS: 7

SC: 10 (12y)

LMS: 200-250 (0 %SE)

ASIC: 82

## 2339 OTHER TEACHING SERVICES OCCUPATIONS

This residual unit group covers teaching services occupations not elsewhere classified in Minor Group 233.

### 2339-Z TEACHING SERVICES OCCUPATIONS nec

This residual group covers teaching services occupations not

elsewhere classified in Minor Group 233, e.g.

Education Researcher

Lecturer/Tutor, External Studies (Higher Education);

Lecturer/Tutor, Course Development (Higher Education)

## **MAJOR GROUP 24**

### **HEALTH OCCUPATIONS**

Health Occupations are classified in the following minor groups.

- 240 Health Diagnosing and/or Treating Occupations
- 241 Other Medical Assisting Occupations
- 242 Medical Science Occupations

#### *Related Occupations*

- |                |   |
|----------------|---|
| Major Group 23 | : Teaching and Related Occupations          |
| Major Group 10 | : Managerial and Administrative Occupations |

# 24 HEALTH OCCUPATIONS

## 240 HEALTH DIAGNOSING AND/OR TREATING OCCUPATIONS

### 2400 NON-SPECIALIST MEDICAL PRACTITIONERS

- 2400-A Medical Practitioner, General
- 2400-Z Non-Specialist Medical Practitioners nec

### 2401 SPECIALIST MEDICAL PRACTITIONERS

- 2401-A Anaesthetist
- 2401-B Public Health and Preventive Medicine Specialist
- 2401-C Industrial Medicine Specialist
- 2401-D Ophthalmologist
- 2401-E Psychiatrist
- 2401-F Radiologist
- 2401-G Cardiologist
- 2401-H Obstetrician and Gynaecologist
- 2401-I Orthopaedic Specialist
- 2401-J Thoracic Specialist
- 2401-K Paediatrician
- 2401-L Dermatologist
- 2401-M Otorhinolaryngologist
- 2401-N Urologist
- 2401-O Plastic Surgeon
- 2401-Z Specialist Medical Practitioners nec

### 2402 DENTAL PRACTITIONERS

- 2402-A Dentist
- 2402-B Dental Specialist
- 2402-Z Dental Practitioners nec

### 2403 DIAGNOSIS AND TREATMENT SUPPORT OCCUPATIONS

- 2403-A Cardiac Technician
- 2403-B Dental Technician
- 2403-C Dental Therapist
- 2403-D Optical Dispenser
- 2403-Z Diagnosis and Treatment Support Occupations nec

### 2404 PARAMEDICAL PRACTITIONERS

- 2404-A Audiologist
- 2404-B Occupational Therapist
- 2404-C Orthoptist
- 2404-D Physiotherapist
- 2404-E Speech Pathologist
- 2404-F Dietitian
- 2404-G Optometrist
- 2404-Z Paramedical Practitioners nec

### 2409 OTHER HEALTH DIAGNOSING AND/OR TREATING OCCUPATIONS

- 2409-A Chiropractor/Osteopath
- 2409-B Natural Therapist
- 2409-C Podiatrist
- 2409-D Prosthetist/Orthotist
- 2409-Z Health Diagnosing and/or Treating Occupations nec

## 241 OTHER MEDICAL ASSISTING OCCUPATIONS

### 2410 NURSING SUPERVISORY OCCUPATIONS

- 2410-A Nurse Educator
- 2410-B Nursing Supervisor
- 2410-Z Nursing Supervisory Occupations nec

### 2411 NURSES (GENERAL)

- 2411-A General Registered Nurse

### 2412 NURSES (SPECIALIST)

- 2412-A Community Health Nurse
- 2412-B Midwifery Nurse
- 2412-C Mental Retardation Nurse
- 2412-D Psychiatric Nurse
- 2412-Z Nurses (Specialist) nec

### 2413 NURSES-IN-TRAINING

- 2413-A Student Nurse

### 2414 ENROLLED NURSES

- 2414-A Mothercraft Nurse
- 2414-B State Enrolled Nurse
- 2414-Z Enrolled Nurses nec

### 2419 OTHER MEDICAL ASSISTING OCCUPATIONS

- 2419-A Ambulance Officer
- 2419-B Audiometrist
- 2419-C Chiropractic Aide
- 2419-D Dental Nurse
- 2419-E Ward Helper
- 2419-F Wardsman/maid
- 2419-Z Medical Assisting Occupations nec

## 242 MEDICAL SCIENCE OCCUPATIONS

### 2420 CLINICAL LABORATORY SCIENTISTS

- 2420-A Clinical Physical Scientist
- 2420-B Medical Laboratory Scientist
- 2420-C Pathologist
- 2420-Z Clinical Laboratory Scientists nec

### 2421 PHARMACISTS

- 2421-A Hospital Pharmacist
- 2421-B Industrial Pharmacist
- 2421-C Retail Pharmacist
- 2421-Z Pharmacists nec

### 2422 RADIOGRAPHERS

- 2422-A Medical Diagnostic Radiographer
- 2422-B Medical Nucleographer
- 2422-C Medical Therapeutic Radiographer
- 2422-Z Radiographers nec

### 2423 MEDICAL LABORATORY TECHNICIANS

- 2423-A Medical Laboratory Technician

### 2429 OTHER MEDICAL SCIENCE OCCUPATIONS

- 2429-Z Medical Science Occupations nec

MINOR GROUP 240  
HEALTH DIAGNOSING AND/OR TREATING OCCUPATIONS

Health Diagnosing and/or Treating Occupations are classified in the following unit groups.

- 2400 Non-Specialist Medical Practitioners
- 2401 Specialist Medical Practitioners
- 2402 Dental Practitioners
- 2403 Diagnosis and Treatment Support Occupations
- 2404 Paramedical Practitioners
- 2409 Other Health Diagnosing and/or Treating Occupations

2400 NON-SPECIALIST MEDICAL PRACTITIONERS

This unit group covers occupations concerned with preventing, diagnosing and treating human illnesses.

**Entry Requirements** degrees in medicine and surgery and clinical experience for a prescribed period in a hospital.

**Activities include** conducting medical examinations; making diagnoses; prescribing and giving treatment for diseases and disorders of the human body and mind and for injuries to the human body; applying preventive medicine techniques; referring patients to physicians, surgeons or other specialists.

2400-A MEDICAL PRACTITIONER, GENERAL Doctor

Diagnoses and treats diseases, disorders and injuries of the human body, acting as the patient's primary contact with health care.

Questions and examines patient. Orders and performs laboratory tests, X-rays and other diagnostic procedures, and analyses reports and findings in making diagnoses. Prescribes and administers treatments and drugs, including physiotherapy other remedial treatments. Inoculates patients to prevent communicable diseases. Advises on diet, exercise and other health habits as aids in the prevention of diseases and disorders. Provides pre- and post-natal care, and delivers babies. Reports births, deaths and specified contagious diseases to governmental authorities. Refers patients to physicians, surgeons or other specialists.

May perform surgery or assist in surgical procedures. May work in private or group practice, in a health centre.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP5y(D)	IP: T1-2y
HC: ISC	RQ: L1 S1 P2 U1 D2 V1 A1
<i>Materials</i>	
SM: D1 I2 P1 T2	EQ: P1 S1 V2
<i>Functions</i>	
MA: I1 A1 P2 D2 R2 L1	
PA: P2 U2 C2 S1 E2	SA: P1 B1 R4
<i>Context</i>	
EC: M1 L1 C13	TC: A1 I2 T2
SS: I0	SC: I2 (6 y)
LMS: 6125-6250(80%SE)	ASIC: 81

2400-Z NON-SPECIALIST MEDICAL PRACTITIONERS nec

This residual group covers medical practitioners not elsewhere classified in Unit Group 2400, e.g.

- Intern
- Resident Medical Practitioner

2401 SPECIALIST MEDICAL PRACTITIONERS

This unit group covers occupations concerned with specialist medical practice.

**Entry Requirements** post-graduate qualifications in a relevant specialisation of medicine and/or surgery, and clinical experience for a prescribed period.

**Activities include** providing diagnostic treatment and preventive medical services; performing surgical operations in the treatment of injuries, diseases and disorders of the human body, performing related tasks.

**2401-A ANAESTHETIST**

Administers anaesthetics to prevent pain, and maintains major bodily functions throughout surgical and post-operative procedures.

Examines patient to determine appropriate anaesthetic and sedation. With concurrence of attending physician and surgeon, administers inhalation, intravenous, spinal and other anaesthetics. Takes remedial action to counteract adverse reactions or complications. Monitors patient throughout surgical procedure and in immediate post-operative period. Records details of anaesthetic and sedation administered, and condition of patient before, during and after anaesthesia. Works with other members of health-care team to diagnose and treat patients requiring intensive care or resuscitation.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP10y(PG)	IP: E6y
HC: ISC	RQ: L1 S1 U1 D2 V1 A1
<i>Materials</i>	
SM: D1 P2 T1	EQ: P1
<i>Functions</i>	
MA: I1 A1 P2 D1 R2 M3 L2	
PA: P1 C1 W2 E1	SA: P1 B1 R4
<i>Context</i>	
EC: M1 L1 C13	TC: A1 I2
SS: I2	SC: I2 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

**2401-B PUBLIC HEALTH AND PREVENTIVE MEDICINE SPECIALIST  
Community Health Specialist**

Carries out medical and public health work directed at promoting and preserving desirable standards of health, performing any combination of the following duties.

Provides a wide range of medical services which are outside the range of hospital services. Conducts examinations of school children, and gives advice and instruction to them on health, nutrition and hygiene. Guides and supervises the work of maternity and child welfare clinics. Carries out immunisation programs and treatment of communicable diseases. Conducts health-education and accident-prevention campaigns. Carries out epidemiological studies and research, providing statistical data for the planning and administration of community health services.

May be responsible for planning and administering public health programs.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP6y(PG)	IP: E2y
HC: ISC	RQ: L1 S1 P2 U1 V2 A2
<i>Materials</i>	
SM: D2 I2 P1	EQ: S2 V2
<i>Functions</i>	
MA: I2 A1 P1 D1 R2 M3 L1	
PA: P2 S2 W1 E1	SA: L1 P1 B1 R3-4
<i>Context</i>	
EC: M1 L4 C13	TC: A1
SS: I1	SC: I2 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

**2401-C INDUSTRIAL MEDICINE SPECIALIST  
Occupational Health Specialist**

Provides diagnostic, treatment and preventive medical services related to diseases and injuries arising from or aggravated by occupation or workplace, performing any combination of the following duties.

Diagnoses and treats occupational injuries or illnesses of employees. Refers employees to private medical practitioners for prolonged or specific treatment. Carries out pre-employment, periodic and special medical examinations as prescribed by law or policy. Recommends suitable placement of workers for rehabilitation purposes. Conducts health and safety education programs, and recommends procedures to promote occupational health and safety. Advises on first-aid facilities and on matters concerned with workers compensation insurance.

May conduct research into occupational hazards and safety procedures. May direct the activities of a dispensary, first-aid station or infirmary.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP6y(PG)	IP: E2y
HC: ISC	RQ: L1 S1 P2 U1 V2 A2
<i>Materials</i>	
SM: D1 P1 T2	EQ: P2
<i>Functions</i>	
MA: I2 A1 P2 D2 R2 L1	
PA: P2 S2 W1 E2	SA: L2 P1 B1 R4
<i>Context</i>	
EC: M2 L1	TC: A1
SS: I1	SC: I2 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

**2401-D OPHTHALMOLOGIST  
Oculist**

Diagnoses and treats, medically and surgically, diseases, injuries and deficiencies of the eye and associated structures.

Examines patient for symptoms indicative of organic and congenital eye disorders. Performs tests to determine vision loss and nature and extent of injury, disease or disorder. Instructs patients in remedial eye exercises. Prescribes and administers medications and writes prescriptions for corrective optical appliances. Performs surgery. Is usually self-employed.

May supervise work of orthoptists and ophthalmic nurses.

*Related Occupations*

- Occupation 2404-G : Optometrist
- Occupation 2404-C : Orthoptist

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP8y(PG)	IP: E6y
HC: ISC	RQ: L1 S1 U1 V1 A2
<i>Materials</i>	
SM: D1 P1 T2	EQ: P1
<i>Functions</i>	
MA: I2 A1 P2 D1 R2 M3 L1	
PA: P1 C1 S1 W2 E2	SA: P1 M1 R4

<i>Context</i>	
EC: M1 L1 C13	TC: A1 T2
SS: 12	SC: 12 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

**2401-E PSYCHIATRIST**

Diagnoses and treats mental, emotional and behavioural disorders.

Studies patient's medical and mental history as obtained from patient, relatives and other sources. Examines patient to determine general physical condition. Orders laboratory tests, skull X-rays, psychological assessment tests and other diagnostic procedures. Correlates results of tests and examination to diagnose nature and extent of disorder. Prescribes and administers medication, psychotherapy and other treatment and rehabilitation programs.

May be self-employed or employed part-time or full-time by a hospital or government body. May specialise in forensic psychiatry and child psychiatry.

*Related Occupations*

Unit Group 2101 : Psychologists

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP10y(PG)	IP: E6y
HC: ISC	RQ: L1 S1 P2 U1
<i>Materials</i>	
SM: D1 I2 P1	EQ: S2
<i>Functions</i>	
MA: I2 A1 P1 D1 R2 L1	
PA: S1 E1	SA: P1 M1 R4
<i>Context</i>	
EC: M2 L1	TC: A1 T2
SS: 12	SC: 12 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

**2401-F RADIOLOGIST**

Diagnoses and treats diseases of the human body using X-rays, ultrasound and radioactive substances.

Examines internal structures and functions of organ systems using X-rays, with or without the aid of introduced radio-opaque substances, and ultrasound thermography. Correlates X-ray findings with other examinations and tests to make diagnoses. Treats benign and malignant internal and external growths by exposure to radiation from X-rays, high-energy sources, and natural and man-made radio-isotopes.

May be self-employed or employed in hospital or institution. May specialise in diagnosis by interpretation of X-rays, and be designated accordingly,

Diagnostic Radiologist

May specialise in diagnosis by radiological methods including ultrasound, and be designated accordingly,

Diagnostic Ultrasound Radiologist

May specialise in radiotherapy and treatment of patients suffering from cancerous diseases and be designated accordingly,

Radiation Oncologist; Therapeutic Radiologist

*Related Occupations*

Unit Group 2422 : Radiographers

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP10y(PG)	IP: E6y
HC: ISC	RQ: L1 S1 U1 V1
<i>Materials</i>	
SM: D1 T1	EQ: P2
<i>Functions</i>	
MA: I2 A1 P2 D2 R2 L1	
PA: U2 S1 E1	SA: S2 P1 M1 R4

<i>Context</i>	
EC: M1 L1 C11	TC: A1 I2 T2
SS: 12	SC: 12 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

**2401-G CARDIOLOGIST**

Provides diagnostic treatment and preventive medical services related to heart diseases, performing any combination of the following duties.

Performs various tasks and investigations on the patient with heart complaints using special sophisticated equipment, such as cardiac monitors and laboratory equipment. Maintains a close liaison with other personnel caring for the patient. Receives assistance from cardiology technicians in obtaining electrocardiograms. Works with physicians and surgeons in order to provide the best care for the patient. Usually works in hospitals or clinical units particularly designed for treatment of patients with heart complaints.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP8y(PG)	IP: E6y
HC: ISC	RQ: L1 S1 U1 V1 A2
<i>Materials</i>	
SM: D1 P1 T2	EQ: P1
<i>Functions</i>	
MA: I2 A1 P2 D1 R2 M3 L1	
PA: P1 C1 S1 W2 E2	SA: P1 M1 R4
<i>Context</i>	
EC: M1 L1 C13	TC: A1 T2
SS: 12	SC: 12 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

**2401-H OBSTETRICIAN AND GYNAECOLOGIST**

Provides diagnostic treatment and preventive medical services related to diseases and disorders of the female reproductive system (gynaecology) and/or in the care of women during pregnancy, confinement and after childbirth (obstetrics), performing any combination of the following duties.

During the course of the patient's pregnancy, provides supporting therapy and preparation for childbirth and lactation. Regularly examines blood pressure and urine. Monitors the developing foetus and gives advice on good nutrition and suitable exercises. Treats any complications, such as hypertension, pre-eclampsia, infection, depression or threatened abortion. During and after childbirth, ensures that no complications are present. Will call in a paediatrician for consultation if the baby has any abnormalities or complications. Discusses and prescribes contraceptive methods; arranges for follow up care of the baby by family practitioner or local clinic. Participates in teaching programs involving sex education, family planning and prevention of venereal diseases.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP8y(PG)	IP: E6y
HC: ISC	RQ: L1 S1 U1 V1 A2
<i>Materials</i>	
SM: D1 P1 T2	EQ: P1
<i>Functions</i>	
MA: I2 A1 P2 D1 R2 M3 L1	
PA: P1 C1 S1 W2 E2	SA: P1 M1 R4
<i>Context</i>	
EC: M1 L1 C13	TC: A1 T2
SS: 12	SC: 12 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

**2401-I ORTHOPAEDIC SPECIALIST**

Provides diagnostic treatment and preventive medical services related to diseases and abnormalities and injuries involving the limbs and spine.

Treats accident victims with highly specialised surgical procedures, including the fitting of complex prostheses for the damaged bones and joints. Provides medical and surgical treatment, usually of a corrective nature, to infants and older children with congenital abnormalities. Undertakes a comprehensive program of rehabilitation for the patient. Is rostered to supply an accident service for emergency admissions, although most orthopaedic surgeons also conduct a private practice outside the hospital system.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE12y PSP8y(PG)	IP: E6y
HC: ISC	RQ: L1 S1 U1 V1 A2
<i>Materials</i>	
SM: D1 P1 T2	EQ: P1
<i>Functions</i>	
MA: I2 A1 P2 D1 R2 M3 L1	
PA: P1 C1 S1 W2 E2	SA: P1 M1 R4
<i>Context</i>	
EC: M1 L1 C13	TC: A1 T2
SS: I2	SC: I2 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

2401-J                      THORACIC SPECIALIST

Provides diagnosis and treatment of various conditions affecting mainly the respiratory system and their consequent effects on the heart and the great blood vessels.

Investigates the aetiology and the functional consequences of respiratory disease using various types of allergic and immunological studies and pulmonary function tests. Prescribes programs of physiotherapy and rehabilitation to patients, both those with chronic lung disease and those recovering from thoracic surgical intervention.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE12y PSP8y(PG)	IP: E6y
HC: ISC	RQ: L1 S1 U1 V1 A2
<i>Materials</i>	
SM: D1 P1 T2	EQ: P1
<i>Functions</i>	
MA: I2 A1 P2 D1 R2 M3 L1	
PA: P1 C1 S1 W2 E2	SA: P1 M1 R4
<i>Context</i>	
EC: M1 L1 C13	TC: A1 T2
SS: I2	SC: I2 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

2401-K                      PAEDIATRICIAN

Provides medical services to children from birth up to and including adolescence.

Is concerned with prevention and management of medical and developmental disorders, whether of organic, emotional or social origin. Promotes positive health in childhood.

May practise as general paediatrician or may sub-specialise as paediatric cardiologist, neurologist etc. May specialise in paediatric surgery and be general paediatric surgeon or have a particular area of sub-speciality interest, such as paediatric orthopaedics or cardiac surgery.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE12y PSP8y(PG)	IP: E6y
HC: ISC	RQ: L1 S1 U1 V1 A2
<i>Materials</i>	
SM: D1 P1 T2	EQ: P1
<i>Functions</i>	
MA: I2 A1 P2 D1 R2 M3 L1	
PA: P1 C1 S1 W2 E2	SA: P1 M1 R4
<i>Context</i>	
EC: M1 L1 C13	TC: A1 T2
SS: I2	SC: I2 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

2401-L                      DERMATOLOGIST

Provides diagnostic treatment and preventive medical services related to skin disorders.

Diagnoses and treats skin disorders which include infections, inherited, neoplastic and parasitic conditions. Diagnoses allergic skin conditions which may be brought about by inhalation of pollen or contact with chemical substances to which the individual is sensitive. Makes microscopic and macroscopic examination, skin sensitivity tests and bacteriological cultures.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE12y PSP8y(PG)	IP: E6y
HC: ISC	RQ: L1 S1 U1 V1 A2
<i>Materials</i>	
SM: D1 P1 T2	EQ: P1
<i>Functions</i>	
MA: I2 A1 P2 D1 R2 M3 L1	
PA: P1 C1 S1 W2 E2	SA: P1 M1 R4
<i>Context</i>	
EC: M1 L1 C13	TC: A1 T2
SS: I2	SC: I2 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

2401-M                      OTORHINOLARYNGOLOGIST  
Ear, Nose and Throat Specialist

Provides diagnostic treatment and preventive medical services related to diseases and disorders of the ears, nose, throat, pharynx and trachea.

Diagnoses and treats patients with conditions affecting the ear, nose and throat. Prepares patient and family for such surgical procedures as tonsillectomy and adenoidectomy, where most of the patients are children. Places emphasis on the proper rehabilitation of patients following medical and surgical treatment. Undertakes microsurgery on the ear, rhinoplasty (surgery of the head and neck) and special therapy.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE12y PSP8y(PG)	IP: E6y
HC: ISC	RQ: L1 S1 U1 V1 A2
<i>Materials</i>	
SM: D1 P1 T2	EQ: P1
<i>Functions</i>	
MA: I2 A1 P2 D1 R2 M3 L1	
PA: P1 C1 S1 W2 E2	SA: P1 M1 R4
<i>Context</i>	
EC: M1 L1 C13	TC: A1 T2
SS: I2	SC: I2 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

2401-N                      UROLOGIST

Provides diagnostic treatment and preventive medical services related to conditions affecting the urogenital tract.

Prevents, diagnoses and treats conditions affecting the urinary system in the female and the genito-urinary system in the male. Specialises in surgical procedures related to urogenital tract conditions, as distinct from the work done by physicians, who specialise in renal medicine (nephrology).

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE12y PSP8y(PG)	IP: E6y
HC: ISC	RQ: L1 S1 U1 V1 A2
<i>Materials</i>	
SM: D1 P1 T2	EQ: P1
<i>Functions</i>	
MA: I2 A1 P2 D1 R2 M3 L1	
PA: P1 C1 S1 W2 E2	SA: P1 M1 R4

Context	
EC: M1 L1 C13	TC: A1 T2
SS: 12	SC: 12 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

2401-O PLASTIC SURGEON  
Plastic and Reconstructive Surgeon

Performs operations to improve the appearance or function of the exposed parts of the body that are defective, deformed or damaged.

Undertakes skin grafting procedures, which involves the replacement of skin in one area with the healthy skin obtained from another area of the patient's body or a skin donor. Corrects or repairs hare lips and cleft palates and other congenital deformities. Cares for patients with burns. Undertakes reconstructive surgery after injury or surgical removal. Makes replacements with prostheses of the injured or missing parts of the face, nose or ears. Performs cosmetic surgery, such as reconstruction of the shape of the nose, facial and mammary repair to improve the appearance; and dermabrasion, which is a technique to remove superficial skin blemishes, such as acne, scars or pits.

Job Content Factors	
Workers	
FP: GE12y PSP8y(PG)	IP: E6y
HC: ISC	RQ: L1 S1 U1 V1 A2
Materials	
SM: D1 P1 T2	EQ: P1
Functions	
MA: I2 A1 P2 D1 R2 M3 L1	SA: P1 M1 R4
PA: P1 C1 S1 W2 E2	
Context	
EC: M1 L1 C13	TC: A1 T2
SS: 12	SC: 12 (vy)
LMS: 120-125 (90%SE)	ASIC: 81

2401-Z SPECIALIST MEDICAL  
PRACTITIONERS nec

This residual group covers specialist medical practitioner occupations not elsewhere classified in Unit Group 2401, e.g.

Allergist	Clinical Endocrinologist
Geriatrician	Nephrologist
Neurosurgeon	Police Surgeon
Rheumatologist	Surgeon, General
Nuclear Medicine Specialist	
Infectious Diseases Specialist	
Physical and Rehabilitation Medicine Specialist	

2402 DENTAL PRACTITIONERS

This unit group covers occupations concerned with diagnosing, treating and preventing ailments or abnormalities of gums, teeth and related structures.

**Entry Requirements** a degree in dentistry; occupations in a specialist field of dental practice normally require postgraduate qualifications and clinical experience for a prescribed period.

**Activities include** examining teeth, gums and other tissues; diagnosing and treating conditions; filling cavities, replacing crowns and performing oral surgery; constructing or specifying dentures; administering local or general anaesthetics; referring patients to medical or dental specialists.

2402-A DENTIST

Diagnoses and treats diseases, injuries and abnormalities of teeth, gums and related oral structures, and prescribes and administers restorative and preventive procedures.

Examines teeth, gums and other tissues, using dental equipment and X-rays. Diagnoses condition and plans treatment. Administers local and general anaesthetics. Fills cavities with amalgam or other materials. Constructs inlays and artificial crowns to replace portions of teeth. Takes dental impressions. Designs bridgework and partial or complete dentures. Constructs dental appliances or writes specifications for dental technicians to construct. Advises patients on oral hygiene. Refers patients to dental specialists and medical practitioners for examination and treatment.

May be engaged in dental work in school dental services, local government and private company clinics or health centres.

Job Content Factors	
Workers	
FP: GE12y PSP5y(D)	IP:
HC: ISC	RQ: S1 U1 D2 V1
Materials	
SM: D2 P1 T1	EQ: P1 M1

Functions	
MA: A1 P2 D2 R2 M3 L2	SA: P1 B1 R4
PA: P1 C1 S1 E2	
Context	
EC: L1 C13	TC: A1 T2
SS: 8	SC: 12 (5 y)
LMS: 6000-6100(80%SE)	ASIC: 81

2402-B DENTAL SPECIALIST

Diagnoses and treats diseases, injuries, irregularities and malformations of teeth and associated structures in the mouth and jaw, using surgery or other specialist techniques.

Examines patient and arranges for any necessary X-ray examinations or special tests. Makes diagnoses on basis of examinations and tests. Undertakes or arranges for appropriate treatment. Supervises patient's progress after treatment.

May specialise in the improvement of community oral health by making epidemiological studies, and planning and implementing dental health services, including dental health education, and be designated accordingly,

Dental Public Health Specialist

May specialise in the diagnosis and treatment of diseases of nerve, pulp, and root canal of teeth and related structures, and be designated accordingly,

Endodontist

May specialise in the diagnosis and treatment of general and specific diseases with manifestations within and around the mouth, and be designated accordingly,

Oral Pathologist

May specialise in performing surgery related to injuries, diseases, malformations and deficiencies of the mouth and jaw, and be designated accordingly,

Oral Surgeon

May specialise in the diagnosis and correction of abnormalities in growth development and position of teeth and other dental-facial structures, and be designated accordingly,

Orthodontist

May specialise in the diagnosis and treatment of injuries, diseases and malformations of the mouth in children, and be designated accordingly,

Paedodontist

May specialise in the diagnosis and treatment of disorders and diseases affecting gums and other tissues surrounding teeth, and be designated accordingly,

Periodontist

May specialise in the replacement of missing teeth and the correction of irregularities of mouth and jaws with dental prostheses to improve speech, mastication and appearance, and be designated accordingly,

Prosthodontist

Job Content Factors

<b>Workers</b>	
FP: GE12y PSP7y(PG)	IP: E1-2y
HC: ISC	RQ: S1 U1 D2 V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: P1
<b>Functions</b>	
MA: I2 A1 P2 D1 R2 L1	
PA: P1 C1 W1 E2	SA: P1 B1 R4
<b>Context</b>	
EC: L1 C13	TC: A1
SS: 12	SC: 12 (7 y)
LMS: 900 (90%SE)	ASIC: 81

2402-Z DENTAL PRACTITIONERS nec

This residual group covers dental practitioners not elsewhere classified in Unit Group 2402.

2403 DIAGNOSIS AND TREATMENT SUPPORT OCCUPATIONS

This unit group covers occupations concerned with providing technical support for medical, dental and other practitioners in the diagnosis and treatment of human diseases and disorders.

**Entry Requirements** a para-professional certificate in a relevant technical specialisation.

**Activities include** operating a range of medical equipment; constructing and repairing dental prostheses; providing, under supervision of dentists, dental care for pre-school and primary school children; dispensing and repairing optical devices for the correction of vision defects.

2403-A CARDIAC TECHNICIAN

Operates various medical equipment to assist medical practitioners in the diagnosis and treatment of heart disease, performing any combination of the following duties.

Performs duties as described under Master Title TECHNICIAN, operating, testing and carrying out routine maintenance of a range of medical equipment used in procedures required by a cardiologist in the diagnosis and treatment of heart ailments. Records the electrical activity of the heart using electrocardiography and vectorcardiography, and changes in this activity under the stress of exercise. Records heart sounds. Uses ultrasound to produce echo cardiograms representing cardiac structures. Tests artificial pacemakers after implantation in patient. Measures pressures generated by the heart and uses movie X-rays with injected substances to detect holes in the heart, coronary artery disease and other heart conditions.

May specialise in the use of particular equipment and be designated accordingly, e.g.

Electrocardiographic Technician

Job Content Factors

<b>Workers</b>	
FP: GE11y PSP3y(PPC)	IP: T3y
HC: ISR	RQ: D2 V2 A2
<b>Materials</b>	
SM: D1 P2 T1	EQ: P1 M2

Functions

MA: A2 P2 D3 R3 L2	
PA: P1 E2	SA: S2
<b>Context</b>	
EC: L1	TC: A1 T2
SS: 7	SC: 9 (3 y)
LMS: 200 (0 %SE)	ASIC: 81

2403-B DENTAL TECHNICIAN  
Dental Mechanic; Dental Laboratory Technician

Constructs and repairs dentures and other dental devices.

Fabricates full and partial dentures using wax and plaster models and a range of special tools and equipment. Shapes metal or plastic plates for dentures. Mounts porcelain or plastic teeth in plates according to size, shape, shade and colour. Finishes dentures. Constructs metal clasps, inlays, bridgework and other aids according to specifications. Joins breaks, makes additions or relines denture bases to repair dentures. Works in commercial dental laboratories, the dental laboratories of hospitals, institutions or private dentists, or in own laboratory.

May specialise in an aspect of dental technician work and be designated accordingly, e.g.

- Dental Ceramicist
- Dental Technician, Crown and Bridge
- Dental Technician, Metal
- Orthodontic Technician

May specialise in the construction, supply and fitting of full dentures, partial dentures and other appliances, and be designated accordingly, e.g.

Denturist

Dental Prosthetist; Advanced Dental Technician; Registered Dental Mechanic

**Job Content Factors**

**Workers**

FP: GE10-12y PSP4y(PPC)

IP:

HC: RAC

RQ: S1 U2 V1

**Materials**

SM: D1 T1

EQ: P1 S2 M2

**Functions**

MA: A1 P2 D2 R3 M3 L2

PA: P1 S1 E1

SA: S1

**Context**

EC: L1

TC: A1

SS: 2

SC: 5 (4 y)

LMS: 2200-2400(40%SE)

ASIC: 81

**2403-C DENTAL THERAPIST**

Examines and treats ailments of the teeth, mainly among pre-school and primary school children, under the supervision of a dentist.

Carries out oral examinations including dental radiography if required. Applies rubber dams. Gives pre- and post-operative instruction. Irrigates the mouth. Removes sutures. Makes applications of solutions to teeth and oral tissues. Removes dental calculus and cleans and polishes teeth and restorations. Prepares cavities and restores teeth using amalgam cement or plastics materials. Performs forceps extractions of deciduous teeth, using local analgesic if necessary. Takes part in programs to educate and motivate children, their parents and the general community in matters relating to good oral health. Usually works for government health authorities in school dental clinics.

**Job Content Factors**

**Workers**

FP: GE12y PSP2y(PPC)

IP:

HC: RIC

RQ: S1 U1 D2 V1

**Materials**

SM: D2 P2 T1

EQ: P1 S1 M1

**Functions**

MA: A2 P2 D2 R3 M3 L2

PA: P1 C1 S1 E2

SA: P1 B2 R4

**Context**

EC: T2 M1 L1 C13

TC: A1 T2

SS: 3

SC: 6 (2 y)

LMS: 1300-1400(0 %SE)

ASIC: 81

**2403-D OPTICAL DISPENSER  
Ophthalmic Dispenser; Dispensing Optician**

Interprets and dispenses optical prescriptions and services spectacle lenses and frames, performing some or all of the following duties.

Reads prescription to obtain lens specifications. Measures client for spectacles and discusses style. Arranges for lenses to be made by an optical technician. Fits finished spectacles to client. Carries out repairs or arranges for them to be made by optical technician.

May cut and edge lenses, and fit to frames. May sell sun-glasses, magnifiers and other optical goods. May work for optometrists or be self-employed in business. May be required to work under supervision of an optometrist.

**Related Occupation**

Occupation 2404-G : Optometrist

**Job Content Factors**

**Workers**

FP: GE10y PSP2y(PPC)

IP: T10y

HC: RAS

RQ: S1 U1 V1

**Materials**

SM: D1 P2 T1

EQ: S1 M2

**Functions**

MA: A2 P2 D2 R3 M3 L2

PA: P2 S2 W2 E1

SA: I1 P1

**Context**

EC: L1

TC: A1 I1

SS: 3

SC: 4 (vy)

LMS: 950-1150 (0 %SE)

ASIC: 81

**2403-Z DIAGNOSIS AND TREATMENT  
SUPPORT OCCUPATIONS nec**

This residual group covers occupations concerned with giving technical support to those practising medicine, dentistry, optometry and chiropractic not elsewhere classified in Unit Group 2403, e.g.

Anaesthetic Technician  
Electroencephalographic Technician  
Optical Technician  
Renal Technician

**2404 PARAMEDICAL PRACTITIONERS**

This unit group covers occupations concerned with treating human disorders and disabilities using physical, psychological and mechanical means.

**Entry Requirements** an associate diploma/degree or higher qualification in a relevant paramedical specialisation.

**Activities include** treating disorders and disabilities with heat, water, sound, exercise, massage and other means; giving treatment through activities; treating speech and hearing problems; using exercises to correct defects of vision.

**Related Occupations**

Unit Group 2409 : Other Health Diagnosing and/or Treating Occupations  
Occupation 2403-C : Dental Therapist

2404-A AUDIOLOGIST

Provides diagnostic evaluation and rehabilitative services related to defects of hearing.

Administers air and bone conduction and other audiometric tests and examinations to determine hearing efficiency. Co-ordinates audiometric results with medical, social, behavioural and other diagnostic data. Evaluates total response pattern and acoustic tests to distinguish between organic and non-organic hearing loss. Plans, directs and takes part in counselling, speech-reading and other rehabilitation programs. Prescribes hearing aids and instructs patients in their use. Records patient's condition, treatment and progress.

May act as consultant to educational, medical and other professional groups. May conduct research in the physiology, pathology, physics and psychophysics of auditory system. May design and develop clinical and research procedures and apparatus. May work in government hearing laboratories or in audiological clinics in hospitals.

Related Occupation

Occupation 2419-B : Audiometrist

Job Content Factors

<b>Workers</b>	
FP: GE12y PSP4-5y(PG) / (HD)	IP:
HC: ISC	RQ: S1 U2 D2 A1
<b>Materials</b>	
SM: D1 P1	EQ: P1 K2
<b>Functions</b>	
MA: A1 P1 D2 R2 M3 L2	
PA: P1 S1 E1	SA: P1 B2 R4
<b>Context</b>	
EC: L1	TC: A1
SS: 5-6	SC: 9-10 (vy)
LMS: 150-200 (20%SE)	ASIC: 81

2404-B OCCUPATIONAL THERAPIST

Plans and carries out programs of treatment based on activities, such as work, education and recreation, usually in consultation with other members of a health-care team, to rehabilitate physically and mentally disabled persons.

Administers tests and observes patient to assess emotional, mental and physical capacities. Plans and directs programs in manual and creative arts, vocational skills, recreational activities, remedial games, and cultural and educational interests. Conducts group programs to increase patient's self-confidence and ability to adjust to normal living. Trains handicapped persons in self-care and daily living activities. Assesses patient's vocational potential and provides work-adjustment training and actual work experience. Participates in testing and training of patients with perceptual motor problems. Trains children with learning disabilities. Records patient's activities, responses and progress. Usually works as a member of a health-care team in various institutions.

Job Content Factors

<b>Workers</b>	
FP: GE12y PSP4y(D)	IP:
HC: ISC	RQ: S1 Q2 U2 D1 V2 A2
<b>Materials</b>	
SM: D2 I1 P1 T2	EQ: S2
<b>Functions</b>	
MA: A1 P1 D2 R2 L2	
PA: P2 W2 E2	SA: P1
<b>Context</b>	
EC: L1	TC: A1
SS: 4	SC: 8 (vy)
LMS: 1400-1600(1 %SE)	ASIC: 81

2404-C ORTHOPTIST

Treats defects of binocular vision using exercises and re-education of visual habits, usually in consultation with

ophthalmologists.

Measures and assesses visual acuity, focusing ability, and separate and joint movement of eyes, using special eye-test equipment. Gives exercises to strengthen eye muscles and to co-ordinate movement and focusing of eyes. Instructs patients in the use of corrective techniques in the home. Records patient's condition, treatment and progress.

May be self-employed or work in hospitals or ophthalmologists' practices.

Related Occupation

Occupation 2404-G : Optometrist

Job Content Factors

<b>Workers</b>	
FP: GE12y PSP2y(Adip)	IP:
HC: ISC	RQ: S1 U2 V1
<b>Materials</b>	
SM: D1 P1	EQ: P1
<b>Functions</b>	
MA: A2 P2 D2 R2 M2 L2	
PA: P1 S1 E1	SA: P1
<b>Context</b>	
EC: L1	TC: A1
SS: 3	SC: 8 (vy)
LMS: 150-180 (30%SE)	ASIC: 81

2404-D PHYSIOTHERAPIST

Plans and carries out programs of physical muscular treatment, usually in consultation with medical practitioners, to rehabilitate injured or disabled persons.

Administers muscle, nerve, joint and functional ability tests to identify and assess physical problems of patient. Uses therapeutic properties of exercise, heat and cold, massage, manipulation, hydrotherapy, electrotherapy, ultrasound and ultraviolet and infra-red light to reduce pain, improve circulation, strengthen muscles, restore joint mobility, improve balance and co-ordination and generally to train or retrain patients to perform the activities of normal living. Instructs patients and their families in procedures to be continued at home. Records treatments given and patient's responses and progress.

May be self-employed or work in hospitals, clinics or other health-care centres.

Related Occupations

Occupation 2409-A : Chiropractor/Osteopath

Occupation 4264-A : Masseur/Masseuse

Job Content Factors

<b>Workers</b>	
FP: GE12y PSP4y(D)	IP:
HC: ISC	RQ: L1 S1 U2 D1
<b>Materials</b>	
SM: D1 P1 T2	EQ: P2
<b>Functions</b>	
MA: A1 P2 D2 R2 M3 L1	
PA: P2 W2 E3	SA: P1 B1 R4
<b>Context</b>	
EC: M2 L1	TC: A1 I2
SS: 3-4	SC: 8 (vy)
LMS: 4000 (50%SE)	ASIC: 81

2404-E SPEECH PATHOLOGIST  
Speech Therapist

Diagnoses and treats speech, language and voice disorders, usually in consultation with medical practitioners and other health-care workers.

Administers tests and observes patient to determine nature and extent of disorder. Plans and conducts remedial exercises and programs to correct stuttering, abnormal articulation and other disorders. Treats or advises on children slow in learning

to speak. Provides speech training for patients with communication problems caused by defective hearing, cerebral palsy, surgery or injury. Plans individual or group therapy in rehabilitation of communication disorders. Counsels and guides language-handicapped individuals and families, and their teachers and employers.

May act as consultant to education, medical, dental and other professional groups. May conduct research related to the development of diagnostic and treatment techniques or the design of apparatus for these purposes.

**Job Content Factors**

<i>Workers</i>	
FP: GE12y PSP3y(D)	IP:
HC: ISC	RQ: L1 U2 D1 A1
<i>Materials</i>	
SM: D2 P1	EQ: S2
<i>Functions</i>	
MA: I1 A1 P1 D2 R2 L1	
PA: S1 E1	SA: P1
<i>Context</i>	
EC: L1	TC: A1
SS: 4-5	SC: 5-9 (vy)
LMS: 700-850 (2 %SE)	ASIC: 81

**2404-F DIETITIAN  
Nutritionist**

Plans and supervises preparation and service of normal and modified diets in hospitals and other institutions, and advises on and conducts programs concerning nutrition in the promotion and restoration of health and the prevention of disease, performing any combination of the following duties.

Confers with medical practitioners and other professional health workers to determine the nutritional needs of patients. Plans diets and menus, supervises the preparation and service of food, and evaluates acceptance. Instructs patients, families and others on requirements and importance of prescribed and normal diets, and on planning and preparation of food. Monitors patient's food intake and quality of food to provide adequate nutritional care. Plans, conducts and evaluates nutrition education programs, and compiles educational material.

May conduct and evaluate dietary studies and participate in studies of diseases with nutritional component.

**Related Occupation**

Occupation 2000-E : Food Chemist

**Job Content Factors**

<i>Workers</i>	
FP: GE12y PSP4y(PG)	IP:
HC: ISC	RQ: L1 S2 U1 D1
<i>Materials</i>	
SM: D1 P1	EQ: S2
<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M3 L1	
PA: S2 W1 E2	SA: S1 L1 P2 B2 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 7	SC: 10 (vy)
LMS: 450-500 (30%SE)	ASIC: 81

**2404-G OPTOMETRIST**

Detects, diagnoses and corrects defects or disorders in the eye in cases not requiring medicine or surgery.

Examines patient's eyes to determine the presence, nature and extent of vision problems and abnormalities. Prescribes suitable lenses, contact lenses and low-vision aids to be made by optical mechanic, and checks their suitability and comfort when complete. Advises patients on exercises to correct defective eye muscles and on lighting and visual habits. Refers patients with evidence of eye disease to medical practitioner for medical or surgical treatment. Usually works as a principal or employee in private practice.

**Job Content Factors**

<i>Workers</i>	
FP: GE12y PSP4y(D)	IP:
HC: ISC	RQ: S1 U1 D2 V1
<i>Materials</i>	
SM: D1 P1 T2	EQ: P1
<i>Functions</i>	
MA: A1 P2 D2 R2 M3 L1	
PA: P1 S1 E1	SA: P1 B1 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 5	SC: 8 (vy)
LMS: 1100-1200(20%SE)	ASIC: 81

**2404-Z PARAMEDICAL PRACTITIONERS nec**

This residual group covers occupations concerned with therapeutic treatment of handicapped or disabled persons by various means and not elsewhere classified in Unit Group 2404, e.g.

Dance Therapist  
Music Therapist  
Recreational Therapist

**2409 OTHER HEALTH DIAGNOSING AND/OR TREATING OCCUPATIONS**

This residual unit group covers occupations, not elsewhere classified, which involve the diagnosis and treatment of disorders of the human body and provision of health care services.

**Activities include** discussion, observation and the use of diagnostic aids to determine the nature of the disorder; correction of the disorder by manipulation, exercises, appliances, diet and other procedures; planning, organising and supervising diets appropriate to particular illnesses, disorders and treatments; manufacturing and fitting artificial limbs and therapeutic structures; treating diseases by 'natural' methods.

2409-A CHIROPRACTOR/OSTEOPATH

Is concerned with the diagnosis, treatment and prevention of physiological and mechanical disorders relating to the human locomotor system, more particularly of the spine and pelvis, using manipulation and other techniques, performing some or all of the following duties.

Uses discussion, observation, examination and supplementary diagnostic aids, often including X-rays, to determine the nature and extent of the disorder. Corrects disorder by manipulation and manual adjustment of the articulated joints of the human body, supplemented by water, light, heat or electrotherapy. Reduces physical interference to the nervous system which may cause pain, impairment of normal function, or lowered resistance to disease. Prescribes subsequent treatment, including corrective exercises and diet. Usually works in private practice; patients make direct approaches, and are not normally referred.

Related Occupations

- Occupation 2404-D : Physiotherapist
- Occupation 4264-A : Masseur/Masseuse

Job Content Factors	
Workers	
FP: GE12y PSP5y(D)	IP:
HC: ISC	RQ: S1 U1 D2 V2
Materials	
SM: D1 P1	EQ: S2
Functions	
MA: A1 P1 D2 R2 M3 L1	
PA: P1 C1 S1 E3	SA: L1 P1 B1 R4
Context	
EC: L1	TC: A1 I2
SS: 9	SC: I2 (vy)
LMS: 900-1000 (80%SE)	
ASIC: 81	

2409-B NATURAL THERAPIST

Treats body disorders by a system based on what are believed to be natural laws governing the body.

Examines, questions and observes patient to diagnose disorder. Treats disorder using soft-tissue massage and manipulation, water, light and electrotherapy, psychology, diets including natural foods and herbs, corrective exercises and other essentially natural methods.

May specialise in the use of acupuncture, the insertion of needles at specific points of the body, in conjunction with other natural methods and be designated,

Acupuncturist

May specialise in the use of particular combinations of natural methods and be designated accordingly, e.g.

Herbalist Homeopath

Naturopath

Job Content Factors	
Workers	
FP: GE12y PSP42m(Dip)	IP:
HC: ISC	RQ: U2 D1 V2 A2
Materials	
SM: D2 P1 T2	EQ: S1
Functions	
MA: A1 P2 D2 R2 M3 L2	
PA: P2 S2 W2 E2	SA: P1
Context	
EC: L1	TC: A1
SS: 7	SC: V
LMS: 300-400 (60%SE)	
ASIC: 81	

2409-C PODIATRIST  
Chiropodist

Diagnoses and treats ailments and abnormal conditions of the human foot and lower leg, using simple medical and surgical procedures and electrical, mechanical or manual methods.

Examines patient's foot to determine nature and extent of conditions, such as corns, callouses, bunions, ingrown toenails and foot infections, and deformities, such as flat feet, foot imbalance and injuries. Prescribes and arranges fabrication of footwear for correction of foot disabilities. Performs minor surgery to remove or ameliorate abnormal conditions. Prescribes and fits replaceable pads, shields, corrective supports and other devices for the protection and correction of foot abnormalities. Refers patients to medical practitioners where medical or surgical treatment is required. Usually works in private practice but may be employed in a hospital, community health centre or industrial clinic.

Job Content Factors	
Workers	
FP: GE12y PSP3y(Dip)	IP:
HC: ISC	RQ: S1 U1 D2 V2
Materials	
SM: D2 P1 T2	EQ: S1
Functions	
MA: A1 P1 D2 R3 M3 L2	
PA: P2 S1 E2	SA: P1
Context	
EC: L1	TC: A1 T2
SS: 3-4	SC: 8 (vy)
LMS: 900-1000 (60%SE)	
ASIC: 81	

2409-D PROSTHETIST/ORTHOTIST

Designs, builds, fits and repairs prostheses (artificial limbs) and orthoses (braces, callipers etc.) to correct physical defects of human bodies.

Interprets medical practitioner's specifications for prosthesis or orthosis. Measures patient for appliance. Designs or draws model or working sketch of appliance. Constructs or supervises the construction of the appliance using appropriate materials and equipment. Fits patient with appliance and adjusts or modifies to achieve optimum comfort and function. Advises patient in the use and care of appliance. Services and repairs appliance as necessary.

May be employed in hospital, government rehabilitation centre or by commercial manufacturers. May specialise in one or other area and be designated accordingly.

Job Content Factors	
Workers	
FP: GE12y PSP3y(Dip)	IP:
HC: RSC	RQ: U2 V2
Materials	
SM: D1 P2 T1	EQ: P1 S1 M1
Functions	
MA: A2 P2 D2 R3 M3 L2	
PA: P1 S2 W2 E3	SA: S1 I2 B2 R4
Context	
EC: L1	TC: A1
SS: 4	SC: 8 (vy)
LMS: 300-350 (20%SE)	
ASIC: 81	

2409-Z HEALTH DIAGNOSING AND/OR  
TREATING OCCUPATIONS nec

This residual group covers health diagnosing and/or treating occupations not elsewhere classified in Unit Group 2409.

MINOR GROUP 241  
OTHER MEDICAL ASSISTING OCCUPATIONS

Other Medical Assisting Occupations are classified in the following unit groups.

- 2410    Nursing Supervisory Occupations
- 2411    Nurses (General)
- 2412    Nurses (Specialist)
- 2413    Nurses-in-Training
- 2414    Enrolled Nurses
- 2419    Other Medical Assisting Occupations

2410    NURSING SUPERVISORY OCCUPATIONS

This unit group covers occupations concerned with supervising and co-ordinating the activities of, and providing instruction for, workers engaged in nursing and related assisting tasks.

**Entry Requirements** a basic nursing qualification from an approved hospital or a diploma in nursing from a CAE, together with 2-5 years' experience and, in some cases, a post-basic qualification with special emphasis on nursing administration or nurse education.

**Activities include** planning, developing, recommending and evaluating policies and procedures for nursing services; selecting nursing staff and evaluating their performance; instructing and assessing students seeking basic or post-basic qualifications; consulting with medical practitioners and other members of the health team, and ensuring that their instructions are carried out.

2410-A    NURSE EDUCATOR

Educates, trains and prepares student nurses in a hospital-based setting for qualifications leading to registration, performing any combination of the following duties.

Plans and develops syllabus structures, curricula and course programs for nursing education. Prepares and presents lessons on nursing theory and practice. Plans and participates in clinical training in hospitals, clinics or community settings. Conducts assessment and evaluates student progress. Counsels students. Maintains records of instruction and prepares assessment reports. Participates in conferences and seminars on nursing and nurse education.

May take part in nursing research.

Job Content Factors

<b>Workers</b>	
FP: GE11-12y PSP2-3y(Dip) / (PPC) or FP: GE11-12y HC: SIR	IP: E2-5y IP: T3y E2-5y RQ: S2 P2 U1 D1
<b>Materials</b>	
SM: D1 I2 P1 T2	EQ: P2 S2
<b>Functions</b>	
MA: I2 P1 D2 R2 M3 L2 PA: P2 U2 S2 W2 E2	SA: A2 S2 P1
<b>Context</b>	
EC: L1 SS: 8	TC: A1 I2 SC: 9 (vy)
LMS: 1768 (0 %SE)	ASIC: 81

2410-B    NURSING SUPERVISOR  
Nurse Administrator

Supervises and co-ordinates the activities of nursing and auxiliary staff, performing any combination of the following duties.

Participates in planning and developing policies for health services and procedures for nursing activities. Establishes standards of nursing care, and develops alternative patterns for its delivery to achieve most economic use of resources. Ensures that medical practitioners' orders and proper nursing and administrative procedures are followed. Assists with selecting nursing staff and evaluating their performance. Observes patients and nursing activities to ensure that proper nursing care is given. Co-ordinates nursing and patient activities with those of other services and departments. Supervises or assists with orientation and in-service training. Assists with preparation and control of budgets. Oversees the ordering and use of supplies and equipment.

May specialise in supervising the delivery of nursing care to particular categories of patients and be designated accordingly, e.g.

- Casualty Nursing Supervisor
- Midwifery Supervisor (Nursing)
- Operating Theatre Nursing Supervisor
- Paediatrics Supervisor (Nursing)
- Psychiatry Nursing Supervisor

May be responsible for the nursing and related activities of a shift and be designated accordingly,  
Charge Sister

Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP1y(PPC) or FP: GE11-12y PSP2y(Dip)	IP: E2-5y IP: T3y E2-5y
HC: SIR	RQ: S1 D1
<i>Materials</i>	
SM: D2 P1 T2	EQ:
<i>Functions</i>	
MA: A2 P1 D2 R2 M3 L2 PA: S2 W2 E2	SA: L1 P2 B1 R2-3

Context

EC: L1 C13	TC: A1 I1 T2
SS: 4	SC: 6 (vy)
LMS: 11085 (0 %SE)	ASIC: 81
2410-Z	NURSING SUPERVISORY OCCUPATIONS nec

This residual group covers nursing supervisory occupations not elsewhere classified in Unit Group 2410.

2411 NURSES (GENERAL)

This unit group covers occupations concerned with providing general nursing care services to patients in hospitals and nursing homes.

**Entry Requirements** a basic nursing qualification from an approved hospital, or a CAE diploma in nursing.

**Activities include** giving nursing care to the sick, injured and infirm; assisting medical practitioners, supervising the administration of medications; being accountable for patient's care; observing, intervening, recording and reporting to supervisor or medical practitioner, patient's condition, reaction to drugs and other treatment, and significant changes; counselling patient and family in care and treatment to be continued at home.

Related Occupations

Unit Group 2414	: Enrolled Nurses
Unit Group 2419	: Other Medical Assisting Occupations

2411-A GENERAL REGISTERED NURSE

Provides nursing care for patients in hospitals, nursing homes, extended care facilities and other institutions, performing any combination of the following duties.

Discusses and plans nursing care of assigned patients with medical practitioner and other members of health team. Accompanies medical practitioner on rounds in hospitals and other institutions, and assists in examining patients and giving treatments. Observes, records, and reports to supervisor or medical practitioner on significant changes in patients' conditions and their reactions to drugs and other treatments. Performs nursing activities to provide care for patients. Assists with operations by preparing rooms; is responsible for equipment, supplies and sterile instruments. Supervises and co-ordinates the work of state enrolled nurses and other workers. Co-ordinates work of students.

Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP3y(Dip) or FP: GE11-12y PSP3-4y(PPC)	IP: IP:
HC: SIR	RQ: S1 U2 D1 V2 A2
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S1 N2
<i>Functions</i>	
MA: A2 D2 R3 M3 L2 PA: P2 U2 W1 E2	SA: L1 P1 B1 R3-4
<i>Context</i>	
EC: L1 C13	TC: 12 T2
SS: 2	SC: 4 (vy)
LMS: 80000 (0 %SE)	ASIC: 81

2412 NURSES (SPECIALIST)

This unit group covers occupations concerned with the performance of advanced and specialised nursing duties in a hospital, clinic or elsewhere in the community.

**Entry Requirements** a basic nursing qualification from an approved hospital or a diploma in nursing, and/or a post-basic qualification in the relevant nursing specialisation.

**Activities include** providing specialised nursing care for mothers, babies and children; preparing and presenting programs of health-care education directed towards the prevention of infection, accidents and poisoning; arranging for referrals to specialist medical practitioners; advising on nutrition, family planning, child care and other aspects of health care; providing nursing care to patients whose principal condition is subnormality of intelligence, and to patients with mental and emotional problems.

*Related Occupations*

Unit Group 2410 : Nursing Supervisory Occupations

2412-A COMMUNITY HEALTH NURSE

Provides nursing care and health counselling to individuals and families at home, schools, workplaces, health centres or in any other community environment to maintain health and prevent disease, performing any combination of the following duties.

Provides home nursing care and advises families on care of patients and maintenance of healthful environment. Administers prescribed treatment to patients suffering from physical or mental disorders. Examines school students and evaluates their health and physical development. Instructs classes in health education, disease prevention and related subjects, and counsels on health matters. Monitors the physical, emotional and social development of babies and toddlers, advising mothers on breast feeding and children's nutritional and behavioural problems, providing health education and maintaining health records.

May provide nursing care and health education services in situations or areas where a medical practitioner is not constantly available. May specialise in a branch of community health nursing and be designated accordingly, e.g.

- Domiciliary Nurse
- Infant Welfare Nurse
- School Nurse
- Maternal and Child Health Nurse

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP4-5y(Dip)/(PPC)	IP: T1y
HC: SIR	RQ: L1 S1 U2 D1
<i>Materials</i>	
SM: D2 P1 T2	EQ: S1 N2 V2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L2	
PA: P2 U2 C2 W1 E3	SA: L1 I1 P1 B2 R4
<i>Context</i>	
EC: M2 L1 C13	TC: A1 I2 T2
SS: 3	SC: 7 (vy)
LMS: 1031 (0 %SE)	ASIC: 81

2412-B MIDWIFERY NURSE

Provides specialised nursing care to the mother and her baby, performing any combination of the following duties.

Gives advice and assistance to women during pregnancy, childbirth and in the post-natal period. Assists with complicated births. Assesses progress and recognises warning signs of abnormal or potentially abnormal conditions requiring referral to a medical practitioner. Provides health education classes and seminars to promote the health of mothers and infants. Gives nutritional, child care and family planning advice.

May perform normal deliveries and give emergency care in the absence of medical help.

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP3y(Dip)	IP: T1y E3y
or FP: GE11-12y	IP: T18m E3y
HC: SIR	RQ: S1 U2 D1 V2
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S1
<i>Functions</i>	
MA: A2 D2 R3 M3 L2	
PA: P2 W2 E3	SA: L1 I1 P1 B1 R4
<i>Context</i>	
EC: M2 L1 C13	TC: A1 I1 T2
SS: 3	SC: 7 (vy)
LMS: 7369 (0 %SE)	ASIC: 81

2412-C MENTAL RETARDATION NURSE

Provides nursing care to patients whose principal condition is subnormality of intelligence, performing any combination of the following duties.

Attends to nursing care of assigned patients, giving individual care including supervision of personal hygiene. Observes, records and reports to supervisor or medical practitioner on developments in patient's condition. Confers with psychologists, social workers, occupational therapists and other workers to evaluate patient's condition and plan rehabilitation programs. Maintains effective rehabilitation programs including behaviour modification. Assists in providing occupational therapy according to patient's abilities.

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP3y(PPC)	IP:
or FP: GE11-12y PSP3-4y(PPC)	IP: E3-4y
HC: SIR	RQ: S1 U2 D1 V2 A2
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S1 N2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: U2 W2 E3	SA: P1 B2 R4
<i>Context</i>	
EC: L1 C13	TC: A1 I2 T2
SS: 3	SC: 7 (vy)
LMS: 538 (0 %SE)	ASIC: 81

2412-D PSYCHIATRIC NURSE

Provides nursing care to patients with mental and emotional problems who are undergoing psychiatric treatment in hospitals, clinics or private homes, performing any combination of the following duties.

Attends to total nursing care of assigned patients, administering prescribed medications and treatments, and supervising nutrition and personal hygiene. Observes, records and reports to supervisor or medical practitioner symptoms, reactions and changes in the patient's condition. Confers with psychiatrists, psychologists, social workers, occupational therapists and other workers to evaluate patient's condition and plan therapy. Encourages and supports patient's participation in work functions and recreational, community

and other activities to build up self-confidence and to develop relationships with others. Supervises work of students and state enrolled nurses and co-ordinates the care given by other health workers.

May counsel patient at home or in clinic, and evaluate patient's adjustment in community.

Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP3y(PPC)	IP: T3y
or FP:	IP: T1y E3-4y
HC: SIR	RQ: S1 P2 U2 D1 V2
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S1 N2
<i>Functions</i>	
MA: A2 P1 D3 R3 M3 L2	
PA: U2 W1 E2	SA: P1 B1 R3-4

<i>Context</i>	
EC: L1 C13	TC: A1 I1 T2
SS: 3	SC: 7 (vy)
LMS: 1575 (0 %SE)	ASIC: 81

2412-Z NURSES (SPECIALIST) nec

This residual group covers nursing occupations requiring specialist qualifications which have not been classified elsewhere in Unit Group 2412, e.g.

Industrial Nurse	Intensive Care Nurse
Neurosurgical Nurse	Occupational Health Nurse
Oncological Nurse	
Operating Theatre Nurse	Orthopaedic Nurse
Paediatric Nurse	Renal Nurse
Spinal Injuries Nurse	
Plastic and Reconstructive Surgery Nurse	

2413 NURSES-IN-TRAINING

This unit group covers occupations in which on-the-job training is undertaken with a view to qualifying for one of the basic nurse occupations described in Unit Group 2411 : NURSES (GENERAL).

Entry Requirements Year 11-12.

Activities include performing duties of 2411 NURSES (GENERAL) on a progressive basis according to a training schedule.

2413-A STUDENT NURSE  
Student of Nursing

Progressively learns to perform the duties of one of the occupations in Unit Group 2411 NURSES (GENERAL) in selected clinical situations under supervision and according to learning needs.

Performs such of these duties as are consistent with the stage of training reached. Attends classes, demonstrations and other formal training activities.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE11-12y	IP: T3-4y
HC: SIR	RQ: D1 V2 A2
<i>Materials</i>	
SM: D1 P1 T2	EQ: S2 N1
<i>Functions</i>	
MA: D3 R4 M3 L2	
PA: U2 W1 E4	SA: L1 P1
<i>Context</i>	
EC: L1 C13	TC: A1 I1
SS: 1	SC: 2 (3 y)
LMS: 26500 (0 %SE)	ASIC: 81

2414 ENROLLED NURSES

This unit group covers occupations concerned with provision of basic nursing care services in hospitals, nursing homes and other institutions.

Entry Requirements Year 10-12 plus, in some cases, a basic vocational certificate in a relevant area.

Activities include caring for babies and children in hospitals, infant homes, day-care centres and nurseries; under the supervision of registered nurses, performs a variety of basic nursing functions in general, geriatric, or psychiatric hospitals and nursing homes, e.g. bathing, dressing, feeding and monitoring temperature, fluid intake and other body functions.



Job Content Factors

<i>Workers</i>	
FP: GE10y PSP3y(PPC)	IP:
HC: RSC	RQ: A1
<i>Materials</i>	
SM: D2 P1 T2	EQ: P1
<i>Functions</i>	
MA: D3 R3 M3 L2	
PA: P1 W2 E1	SA: I1
<i>Context</i>	
EC: L1	TC: A1
SS: 5-6	SC: 9-10 (vy)
LMS: 150-200 (5 %SE)	ASIC: 81

2419-C CHIROPRACTIC AIDE

Prepares patients for examinations and treatments, and assists chiropractor as directed.

Processes, labels and files X-rays. Assists elderly or incapacitated patients in dressing and undressing for examinations and treatments. Positions patient on table or in chair for treatment by chiropractor or machine. Assists in administering machine treatments as directed by chiropractor. Prepares and maintains files and assists with clerical and housekeeping duties.

Job Content Factors

<i>Workers</i>	
FP: GE10-11y	IP: T18m
HC: SRI	RQ: D2
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 N1
<i>Functions</i>	
MA: D3 R4 M3 L2	
PA: U1 S2 W1 E3	SA: I1
<i>Context</i>	
EC: L1	TC: A1
SS: 3	SC: 7 (vy)
LMS: 700-800 (0 %SE)	ASIC: 81

2419-D DENTAL NURSE  
Dental Chairside Assistant

Assists dentist at the chairside, in pre- and post-operative instruction, dental health education and in office management, performing any combination of the following duties.

Receives and prepares patients for dental treatment. Arranges instruments, materials and medication and hands them to dentist. Exposes, processes and mounts X-ray films. Prepares filling materials and supplies them to dentist as required. Pours, traces and mounts plaster models from impressions taken by dentist. Keeps patient's mouth clear during dental procedures, using suction devices, water sprays and other devices. Polishes teeth, applies fluoride and performs other inter-oral procedures. Performs routine maintenance duties such as lubricating equipment, sharpening instruments, replacing expendable parts and cleaning equipment and treatment area.

May give emergency treatment as directed by dentist. May advise patients of pre- and post-operative procedures, oral hygiene and appropriate diet. May act as receptionist and assist in administrative duties such as billing and cash receipts.

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP1y(B)	IP: T2y
HC: SRI	RQ: D1
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 N1 M2
<i>Functions</i>	
MA: D3 R4 M3 L2	
PA: P2 U1 W1 E2	SA: L1 I1

Context

EC: L1	TC: A1
SS: 2	SC: 3 (vy)
LMS: 8000 (0 %SE)	ASIC: 81

2419-E WARD HELPER  
Hospital Orderly

Assists with the care of patients in hospitals, nursing homes and clinics, performing any combination of the following duties.

Transports patients to and from treatment unit. Cleans, sterilises, stores, prepares and issues instruments, treatment trays, bed pans, dressing packs and other supplies. Changes bed linen, runs errands, directs visitors and answers telephones. Assists nursing staff in bathing and other personal care of patients, including distributing and collecting food trays and feeding patients. Lifts patients on and off beds. Makes beds. Cleans floors and windows. Performs other general duties as required.

May specialise in providing assistance to a surgical team and be designated accordingly, e.g.  
Operating Theatre Attendant

Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: T1-2m
HC: SRC	RQ: D2 V2 A2
<i>Materials</i>	
SM: P2 T2	EQ: N1 W2
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U2 H1 W1 E4	SA: S2 I2
<i>Context</i>	
EC: L1 C13	TC: A1 I1 R2
SS: 3	SC: 5 (vy)
LMS: 10000 (0 %SE)	ASIC: 81

2419-F WARDSMAN/MAID

Ensures wards of hospital remain neat and tidy and provides limited services to patients.

Tidies wards, empties bins and ash trays, closes locker doors, neatly stacks loose articles such as magazines, and dusts fixtures and furniture. Hands meals to patients and provides drinks when requested. Distributes magazines to patients and arranges patients' flowers. Sterilises bed pans using autoclave.

May vacuum and polish floors. May transport patient within hospital using wheel chair. May assist kitchen staff to prepare meals and clean dishes and kitchen area.

Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T2w
HC: RC	RQ: D1
<i>Materials</i>	
SM: P2 T1	EQ: N1 M2 W2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H2 W1 E3	SA: L1 I1
<i>Context</i>	
EC: L1	TC: A1 I1 R2
SS: 2	SC: 3 (vy)
LMS: 20000 (0 %SE)	ASIC: 81,83

2419-Z MEDICAL ASSISTING OCCUPATIONS  
nec

This residual group covers occupations, not elsewhere classified in Unit Group 2419, which are concerned with the nursing and general care of sick, injured and disabled people, and with providing technical assistance and support to therapeutic specialists, e.g.

- Allied Health Assistant
- Dietary Assistant
- Occupational Therapy Aide
- Physiotherapy Aide

MINOR GROUP 242  
MEDICAL SCIENCE OCCUPATIONS

Medical Science Occupations are classified in the following unit groups.

- 2420 Clinical Laboratory Scientists
- 2421 Pharmacists
- 2422 Radiographers and Related Occupations
- 2423 Medical Laboratory Technicians
- 2429 Other Medical Science Occupations

2420 CLINICAL LABORATORY SCIENTISTS

This unit group covers occupations in which scientific techniques are applied to assist in the diagnosis and treatment of diseases and disorders of the human body.

**Entry Requirements** a degree/post-graduate qualification with a major in a relevant medical discipline.

**Activities include** performing laboratory investigations into the nature and characteristics of bacteria, viruses, algae, fungi and other micro-organisms and into human bodily reactions to them; analysing chemical changes occurring in the human body; preparing sections of body for microscopic examination; studying human cell samples to detect abnormalities that suggest disease; conducting medical and physical laboratory tests, procedures, experiments and analyses for diagnosis, treatment and prevention of disease.

*Related Occupations*

Unit Group 2012 : Biological Scientists

2420-A CLINICAL PHYSICAL SCIENTIST

Applies knowledge and methodology of physics, engineering, mathematics, computing, physical chemistry and materials science to the diagnosis, treatment and prevention of human disease, performing any combination of the following duties.

Advises on the use of ionising radiation, either externally delivered or from implanted sources in diagnosis and treatment, and formulates radiation protecting procedures for the hospital environment. Carries out bio-electrical investigations of heart and brain. Explores and develops the medical uses of ultrasound and infra-red light. Advises on and develops equipment for the measurement of physical parameters affecting patients in intensive care or undergoing surgery. Uses the principles of mechanics to analyse the musculo-skeletal system and to design supportive devices. Develops electronic and mechanical devices to assist in the rehabilitation of patients. Develops and advises on instrumentation and clinical services for such specialities as ophthalmology, urology, pathology, anaesthesia, psychiatry, obstetrics and gynaecology. Applies computer techniques to clinical medical problems. Takes part in the design, development and use of artificial organs. Advises on blood and tissue rheology.

May specialise in a particular aspect of clinical physical science, and be designated accordingly, e.g.  
Biomedical Engineer Medical Physicist

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-9y(PG)	IP: T5y
HC: RIC	RQ: U1 V1 A2
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P1 M1 K2
<i>Functions</i>	
MA: I1 A1 P1 D2 R1 M1 L1	
PA: P2 C1 E2	SA: L1 I2 B2 R4
<i>Context</i>	
EC: L1 C11	TC: A1
SS: 6-7	SC: 7-9 (vy)
IMS: 800-1000 (0 %SE)	
ASIC: 81	

2420-B MEDICAL LABORATORY SCIENTIST  
Medical Laboratory Technologist

Conducts medical laboratory tests, procedures, experiments and analyses, deriving from several scientific disciplines, to provide information for the diagnosis, treatment and prevention of disease, performing any combination of the following duties.

Carries out chemical analyses of blood, urine, cerebro-spinal fluids, gastric juices and other body specimens to determine the presence and quantities of sugar, albumen, drugs, poisons, and other chemicals. Studies blood cells, their numbers, morphological characteristics, and coagulation factors related

to various physiological and pathological conditions. Prepares tissue sections for microscopic examination, using various techniques to demonstrate cellular tissue elements or other characteristics. Examines and analyses body specimens for evidence of microbial infections. Studies the behaviour of microbes to assess their effects on human tissue and to develop methods of preventing their propagation. Performs blood group, type and compatability tests for transfusion purposes. Investigates responses of body to foreign cells or other agents. Prepares scientific papers and reports for the benefit of medical clinicians. Supervises and co-ordinates the work of technical and other workers.

May advise medical practitioners on the interpretation of tests and on biochemical or microbiological methods for use in diagnosis and treatment of disease. May work in clinical diagnostic departments or research units of hospitals, public health laboratories or private pathology services. May specialise in an aspect of medical laboratory science and be designated accordingly, e.g.

- Clinical Biochemist
- Clinical Chemist
- Clinical Laboratory Bacteriologist
- Clinical Laboratory Microbiologist
- Clinical Laboratory Virologist
- Clinical Pharmacologist
- Cytotechnologist
- Haematology Medical Laboratory Scientist
- Histology Technologist
- Immunology Medical Laboratory Scientist
- Serology Medical Laboratory Scientist

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3y(D)	IP:
HC: RIC	RQ: U1 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P1 K2
<i>Functions</i>	
MA: I2 A1 P2 D2 R2 M2 L1	
PA: P2 S2 W2 E2	SA: S1 B2 R4
<i>Context</i>	
EC: L1 C13	TC: A1 I2
SS: 2	SC: 9 (vy)
LMS: 3300-3700(0 %SE)	ASIC: 81

2420-C PATHOLOGIST

Diagnoses, from body tissues, fluids, secretions and other specimens, using laboratory procedures, the presence and

stage of disease and possible source of infection.

Studies the nature, cause, development and clinical management of disease states in man, and the structural and functional changes caused by them. Prepares or supervises preparation of tissue sections from surgical and diagnostic cases and autopsies. Examines tissues using scientific techniques and equipment to determine nature, cause and progress of disease. Performs autopsies to determine nature and extent of disease, injury or other disorder, cause of death and effectiveness of treatment. Supervises and co-ordinates the work of medical laboratory scientists, technicians and other workers.

May act as a consultant to other medical practitioners. May direct the activities of a pathology department in a hospital or private clinic or in a coroner's office. May specialise in a particular aspect of pathology and be designated accordingly, e.g.

- |                      |                        |
|----------------------|------------------------|
| Chemical Pathologist | Clinical Immunologist  |
| Cytopathologist      | Epidemiologist         |
| Forensic Pathologist | Haematologist          |
| Histopathologist     | Medical Microbiologist |

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP10y(PG)	IP: T5y
HC: ISC	RQ: L1 S1 U1 V1
<i>Materials</i>	
SM: D1 P2 T1	EQ: P1
<i>Functions</i>	
MA: I2 A1 P2 D2 R2 M3 L1	
PA: U2 S1 E2	SA: P1 B1 R4
<i>Context</i>	
EC: M2 L1 C13	TC: A1 T2
SS: 12	SC: 12 (vy)
LMS: 120-125 (2 %SE)	ASIC: 81

2420-Z CLINICAL LABORATORY SCIENTISTS  
nec

This residual group covers medical laboratory scientists who perform a variety of investigations and provide information on the diagnosis, treatment and prevention of disease, not elsewhere classified in Unit Group 2420, e.g.

- Forensic Pathology Scientist
- Nuclear Medicine Scientist

2421 PHARMACISTS

This unit group covers occupations concerned with compounding and dispensing pharmaceuticals.

**Entry Requirements** a degree/post-graduate qualification in pharmacy, together with a period of approved experience.

**Activities include** filling prescriptions; developing new medical substances; analysing, testing and distributing drugs and related supplies; collating data on reactions to drugs and medicaments; monitoring dosage and checking for incompatibilities.

Related Occupations

Occupation 2012-K : Pharmacologist

2421-A HOSPITAL PHARMACIST

Compounds and dispenses drugs and medicines in a hospital. Reviews prescriptions to ensure that proper doses have been prescribed, that toxic compounds will not be formed and that incompatibilities are absent. Prepares pharmaceuticals to fill prescriptions using various physical and chemical procedures.

Prepares and sterilises medicines for injections. Packages and labels prepared compounds. Maintains inventory of pharmaceuticals issued and returned. Maintains control records of narcotics, poisons, habit-forming drugs and prescription files. Advises medical practitioners on drug incompatibility and contra-indications. Maintains stocks and orders supplies.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP4y(D)/(PG)	IP: T1y
HC: RIC	RQ: S1 U1 D2 V2
<i>Materials</i>	
SM: D1 I1 P2 T1	EQ: S2 K2
<i>Functions</i>	
MA: A2 P1 D2 R2 M2 L1	
PA: U2 H1 S1 W2 E2	SA: S1 B2 R4
<i>Context</i>	
EC: L1	TC: A1 I1
SS: 6	SC: 9 (vy)
LMS: 2200 (0 %SE)	ASIC: 81

2421-B INDUSTRIAL PHARMACIST

Performs duties related to development, production, storage, quality control and distribution of drugs and related supplies.

Conducts research to develop or improve pharmaceuticals, cosmetics and other chemical products. Confers with chemists, engineers and other professional workers about manufacturing techniques and ingredients. Assists with design, development and testing of production equipment. Develops legally recognised standards for drugs used in pharmaceuticals. Tests and analyses drugs to determine their identity, purity and strength in relation to specified standards. Determines most suitable package for medicinal substances to avoid deterioration and facilitate distribution. Sets up and supervises sterile production and packaging areas. Evaluates and advises on government controls on use, packaging and advertising of pharmaceutical products. Supervises and co-ordinates work of technical officers, technicians and other workers.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP3y(D)	IP: T1y
HC: RIC	RQ: S1 U1 V2
<i>Materials</i>	
SM: D1 I2 T1	EQ: P1 S2 K2
<i>Functions</i>	
MA: I1 A2 P2 D2 R2 M2 L1	
PA: P2 E2	SA: S2 B2 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 6	SC: 9 (vy)
LMS: 2200 (0 %SE)	ASIC: 81

2421-C RETAIL PHARMACIST  
Retail Chemist

Compounds and dispenses prescribed pharmaceuticals and sells non-prescription medicines and related goods.

Prepares or supervises the preparation of liquid medicines, ointments, powders, tablets and other medications. Checks prescriptions for correct dosage and for drug interactions and incompatibilities. Compounds prescribed medicines, and packages and labels them. Stores and preserves vaccines, serums and other drugs subject to deterioration. Dispenses medical and surgical products as prescribed. Records prescriptions dispensed and poisons, narcotics and other restricted drugs issued. Provides advice and information on the use and effects of medicaments. Sells non-prescription drugs, sick-room supplies, toiletries, cosmetics and other commercial products.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP4y(D)	IP: T1y
HC: RSC	RQ: S1 U1 D2 V1
<i>Materials</i>	
SM: D2 P1 T1	EQ: S2 K2
<i>Functions</i>	
MA: A2 P1 D2 R2 M3 L2	
PA: U2 H1 W2 E2	SA: S2 I2 P1 B1 R4
<i>Context</i>	
EC: L1 C13	TC: A1 I2
SS: 6	SC: 9 (vy)
LMS: 6600 (80%SE)	ASIC: 81

2421-Z PHARMACISTS nec

This residual group covers pharmacists not elsewhere classified in Unit Group 2421.

2422 RADIOGRAPHERS

This unit group covers occupations in diagnostic or therapeutic radiography or nucleography.

**Entry Requirements** a para-professional certificate/associate diploma/diploma in a relevant specialisation. radiography or nucleography.

**Activities include** operating X-ray and other radiation producing equipment; regulating length and intensity of X-ray beam; preliminary interpretation of film records; handling radioactive materials and preparing radioactive compounds for medical use; using radiation detectors to trace and identify radioactive materials in body organs and tissues.

*Related Occupations*

Occupation 2401-F : Radiologist

2422-A MEDICAL DIAGNOSTIC RADIOGRAPHER

Operates X-ray equipment to produce radiographs for use in the diagnosis of disease and injury.

Positions patients to achieve the most effective radiograph of the body region under examination. Arranges shields to protect other body regions from radiation. Adjusts equipment to collimate beam, thus regulating length and intensity of exposure, and exposes film. Processes or arranges for processing of film, and prepares film for examination by radiologist. Assists radiologist in fluoroscopy, cine-fluoroscopy and other diagnostic procedures. Operates radiography equipment in operating theatre or other specialised area to assist surgeon or other medical practitioner.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP3y(Adip)/(Dip)	IP: T2y
HC: RIS	RQ: S2 U2 D1 V1 A2
<i>Materials</i>	
SM: D1 P2 T1	EQ: P1 K2
<i>Functions</i>	
MA: D3 R3 M3 L2	
PA: P1 C2 W2 E4	SA: I1 P1
<i>Context</i>	
EC: L1 C11	TC: A1 I1
SS: 3	SC: 7 (vy)
LMS: 1500-1850(0 %SE)	ASIC: 81

2422-B MEDICAL NUCLEOGRAPHER

Prepares radioactive solutions and reagents, and operates scanning equipment to assist nuclear medicine specialists in making diagnoses and in monitoring treatments.

Performs assays and quality control tests on radioactive materials. Calculates doses to be administered by physician. Calibrates scanning equipment. Positions patient and operates radiation-scanning equipment to produce photographic image of irradiated area. Calculates blood volume and red cell survival. Studies oscilloscope and photographic images to determine whether further scanning is needed. Performs radio-isotope scanning of pathological specimens and blood samples.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP3y(PPC)/(Dip)	IP:
HC: ISC	RQ: S1 U2 D1 V1
<i>Materials</i>	
SM: D1 T1	EQ: P1 K2
<i>Functions</i>	
MA: A1 P2 D2 R2 M3 L2	
PA: P2 S2 W2 E3	SA: I1
<i>Context</i>	
EC: L1 C11	TC: A1
SS: 3	SC: 7 (vy)
LMS: 700-800 (0 %SE)	ASIC: 81

2422-C MEDICAL THERAPEUTIC RADIOGRAPHER

Administers radiation treatment to patients as prescribed by radiation oncologist or therapy radiologist.

Draws up treatment plan to deliver required radiation dosage precisely to diseased area in each particular patient; submits plan to radiologist for approval. Explains treatment and reassures patient. Arranges shields to protect unaffected areas of patient from radiation. Positions patient and fixes to prevent movement. Sets controls to deliver required dosage. Observes patients through safety window or on closed circuit television. Records dosage and other details on patient's record. Prepares, or assists in preparation of, radioactive substances for use in radiation therapy.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP3y(Adip)/(Dip)	IP: T2y
HC: RIS	RQ: S2 U2 D1 V1
<i>Materials</i>	
SM: D1 P2 T1	EQ: P1 K2
<i>Functions</i>	
MA: P1 D3 R3 M3 L2	
PA: P1 W2 E3	SA: I1
<i>Context</i>	
EC: L1 C11	TC: A1
SS: 3	SC: 7 (vy)
LMS: 1500-1850(0 %SE)	ASIC: 81

2422-Z RADIOGRAPHERS nec

This residual group covers radiographers and related occupations not elsewhere classified in Unit Group 2422.

2423 MEDICAL LABORATORY TECHNICIANS

This unit group covers technical support occupations in medical laboratory science.

**Entry Requirements** a para-professional certificate in medical laboratory science or Year 12 with passes in appropriate subjects.

**Activities include** carrying out routine testing examination and investigation of specimens of body fluids and tissues; collecting blood and tissue samples; preparing tissue sections; assisting medical laboratory scientists in diagnostic, experimental and research work; performing duties described under Master Title TECHNICIAN.

*Related Occupations*

Unit Group 2015 : Life Science Technicians

2423-A MEDICAL LABORATORY TECHNICIAN

Carries out routine laboratory tests and other procedures for use in diagnosing and treating diseases and disorders of the human body, performing any combination of the following duties.

Performs duties as described under Master Title TECHNICIAN. Collects blood samples, makes blood counts, and performs tests to determine bleeding or coagulation time, blood type and other characteristics and conditions of blood. Prepares and stains slides of micro-organisms for microscopic examination. Performs urine analyses and other standard body-fluid tests. Prepares patients for, and performs, basal metabolism and electrocardiograph tests. Cleans, washes and sterilises laboratory glassware and equipment.

May specialise in providing technical support services to a particular aspect of medical laboratory science, and be designated accordingly, e.g.

Cytopathology Technician  
Clinical Biochemistry Technician  
Clinical Microbiology Technician  
Haematology Technician  
Histopathology Technician

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP4y(PPC) or FP: GE12y	IP: IP: T2-3y
HC: RIC	RQ: D2 V1
<i>Materials</i>	
SM: D1 T1	EQ: P1 K2
<i>Functions</i>	
MA: A2 D3 R3 M3 L2 PA: P1 W2 E2	SA: S1
<i>Context</i>	
EC: L1 C13 SS: 2	TC: A1 SC: 6 (vy)
LMS: 4000-5000(0 %SE)	ASIC: 81

2429 OTHER MEDICAL SCIENCE OCCUPATIONS

This residual unit group covers medical science occupations not elsewhere classified in Minor Group 242.

2429-Z MEDICAL SCIENCE OCCUPATIONS nec

This residual group covers medical science occupations not elsewhere classified in Unit Group 2429.

**SUPER GROUP 3**  
**Artistic, Literary and Sport Occupations**

Artistic, Literary and Sport Occupations are classified in the following major group.

30 Artistic, Literary and Sport Occupations

## **MAJOR GROUP 30**

### **ARTISTIC, LITERARY AND SPORT OCCUPATIONS**

Artistic, Literary and Sport Occupations are classified in the following minor groups.

- 300 Visual Arts, Craft and Design Occupations
- 301 Writing Occupations
- 302 Performing and Audio-Visual Arts Occupations
- 303 Sport Occupations

#### *Related Occupations*

- Major Group 23 : Teaching and Related Occupations
- Major Group 11 : Managerial and Administrative Occupations

# 30 ARTISTIC, LITERARY AND SPORT OCCUPATIONS

## 300 VISUAL ARTS, CRAFT AND DESIGN OCCUPATIONS

- 3000 PAINTERS, SCULPTORS AND RELATED  
OCCUPATIONS**  
3000-A Artist  
3000-B Photographer  
3000-C Printmaker  
3000-D Sculptor  
3000-E Teacher, Art (Private)
- 3001 DESIGNERS AND ILLUSTRATORS**  
3001-A Fashion Designer  
3001-B Graphic Designer  
3001-C Industrial Designer  
3001-D Interior Designer  
3001-E Illustrator
- 3002 COMMERCIAL ART SUPPORT OCCUPATIONS**  
3002-A Finished Artist  
3002-B Layout Artist  
3002-C Paste-up Artist  
3002-D Photograph Retoucher  
3002-E Studio Assistant  
3002-Z Commercial Art Support Occupations nec
- 3003 CRAFT OCCUPATIONS**  
3003-A Potter  
3003-Z Craft Occupations nec
- 3009 OTHER VISUAL ARTS, CRAFT AND DESIGN  
OCCUPATIONS**  
3009-A Window Dresser  
3009-Z Visual Arts, Craft and Design Occupations nec

## 301 WRITING OCCUPATIONS

- 3010 JOURNALISTS**  
3010-A Assistant Editor  
3010-B Chief of Staff (News)  
3010-C Reporter  
3010-D Sub-editor  
3010-Z Journalists nec
- 3011 AUTHORS AND RELATED OCCUPATIONS**  
3011-A Author  
3011-B Script Writer  
3011-C Book Editor  
3011-D Script Editor
- 3019 OTHER WRITING OCCUPATIONS**  
3019-A Copy-Writer  
3019-B Translator  
3019-C Cadet Journalist  
3019-Z Writing Occupations nec

## 303 SPORT OCCUPATIONS

- 3030 COACHES, SPORT OCCUPATIONS**  
3030-A Coach, Sport
- 3031 SPORT OFFICIALS**  
3031-A Steward, Race  
3031-B Referee
- 3032 SPORT PROFESSIONALS**  
3032-A Jockey  
3032-B Driver/Cyclist (Sport)  
3032-Z Sport Professionals nec
- 3039 OTHER SPORT OCCUPATIONS**  
3039-A Manager, Sport Centre  
3039-B Bookmaker  
3039-C Bookmaker's Clerk  
3039-Z Sport Occupations nec

## 302 PERFORMING AND AUDIO-VISUAL ARTS OCCUPATIONS

- 3020 PERFORMING ARTS DIRECTORS AND RELATED  
OCCUPATIONS**  
3020-A Art Director (Television, Films and Stage)  
3020-B Casting Director  
3020-C Director (Film and Stage)  
3020-D Director of Photography  
3020-E Film Editor  
3020-F Floor Manager (Television)  
3020-G Director (Broadcasting)  
3020-H Technical Producer  
3020-I Choreographer
- 3021 ACTORS**  
3021-A Actor  
3021-B Teacher, Dramatic Art (Private)  
3021-Z Actors nec
- 3022 POPULAR ENTERTAINERS AND STAGE  
PERFORMERS**  
3022-A Comedian  
3022-B Variety Artist  
3022-Z Popular Entertainers and Stage Performers nec
- 3023 PERFORMING MUSICIANS**  
3023-A Choral Director  
3023-B Concert and Opera Singer  
3023-C Instrumental Musician  
3023-D Orchestra Conductor  
3023-E Popular Singer  
3023-F Teacher, Instrumental Music (Private)  
3023-G Teacher, Vocal Music (Private)  
3023-Z Performing Musicians nec
- 3024 COMPOSERS AND RELATED OCCUPATIONS**  
3024-A Composer  
3024-B Music Arranger  
3024-C Music Copyist  
3024-D Orchestrator
- 3025 DANCERS**  
3025-A Dancer  
3025-B Teacher, Dance
- 3026 MODELS**  
3026-A Model
- 3027 ANNOUNCERS AND RELATED OCCUPATIONS**  
3027-A Announcer  
3027-B Compere  
3027-C Disc Jockey  
3027-D Sports Commentator
- 3028 PERFORMING AND AUDIO-VISUAL ARTS SUPPORT  
OCCUPATIONS**  
3028-A Lighting Supervisor  
3028-B Make-up Artist  
3028-C Property Supervisor (Performing Arts)  
3028-D Special Effects Person  
3028-E Wardrobe Supervisor  
3028-F Prop Maker  
3028-Z Performing and Audio-Visual Arts Support Occupations nec

MINOR GROUP 300  
VISUAL ARTS, CRAFT AND DESIGN OCCUPATIONS

Visual Arts, Craft and Design Occupations are classified in the following unit groups.

- 3000 Painters, Sculptors and Related Occupations
- 3001 Designers and Illustrators
- 3002 Commercial Art Support Occupations
- 3003 Craft Occupations
- 3009 Other Visual Arts, Craft and Design Occupations

3000 PAINTERS, SCULPTORS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with creating and executing original artistic works, and with teaching art.

**Entry Requirements** demonstrated artistic ability rather than formal entry requirements, however degree/diploma/para-professional or basic vocational certificate courses in art and related areas are available.

**Activities include** creating pictures, abstract designs and similar artistic compositions including cartoons and photographs; creating original designs and engraving or etching them on metal, wood or other materials for reproduction; creating three-dimensional forms by shaping materials such as wood, stone, clay or metal; and teaching art.

*Related Occupations*

Unit Group 2130 : Museum and Art Gallery Occupations (Professional)

3000-A ARTIST  
Painter (Artistic)

Creates two-dimensional visual forms such as pictures, abstract designs and similar original compositions in order to communicate an impression or idea.

Conceives and develops ideas for painting or design, selects medium such as oil, water colours, pencil, pastels, acrylic or ink and prepares material to be used for painting or drawing. Arranges object(s), positions model, selects landscape or other visual form according to chosen subject matter. Mixes liquid colouring matter, if required, and applies to surface using appropriate techniques to harmonise relationships of line, colour, design and mass into a unified and artistic arrangement.

May sketch preliminary outline of composition on chosen surface. May produce illustrations for publications. May coat or spray finished artwork with a fixative or preservative such as varnish or acrylic solution. May teach art. May be designated according to specialisation in medium, technique or subject matter, e.g.

- Charcoal Artist
- Oil Painter
- Airbrush Artist
- Miniature Painter
- Ink Sketcher
- Water Colour Painter
- Landscape Painter
- Portrait Painter

May illustrate stories or depict persons and events, frequently with an implicit comment, by means of caricatures, and be designated accordingly,  
Cartoonist

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR PSP or FP: GE12y PSP3-4y(D) / (Dip)	IP: IP: RQ: Q1 U2 V1
<i>Materials</i>	
SM: I1 P2 T2	EQ: P1 S2
<i>Functions</i>	
MA: P2 D3 RV LV PA: P1 U2 H2 E1	SA: A1 S2 L2 I2 P2
<i>Context</i>	
EC: T2 M2 L4 SS: V	TC: A2 I1 SC: V
LMS: 1000 (99%SE)	ASIC: 9137

3000-B PHOTOGRAPHER

Operates a still camera to take photographs of persons, places, merchandise and other subjects, applying knowledge of effect of light on sensitised material, camera capabilities and artistic composition.

Studies requirements of particular assignment and decides on type of camera and film. Chooses artificial lighting or flash as required. Transports and sets up, or directs assistant to set up, equipment at assigned location. Selects or arranges suitable background setting and positions subject, e.g. model and props. Measures lighting level with light meter and determines exposure. Sets camera at desired angle, adjusts lens for focus, and aperture and shutter for desired exposure. Studies subject

through viewfinder and adjusts camera angle and subject to achieve appropriate artistic composition of picture. Rearranges lighting, if necessary, to bring out highlights and colours.

May mix chemicals and process exposed film to make negatives, prints and transparencies. May direct and instruct other photographers. May use filters, when appropriate, to alter type of light reaching film. May make enlarged prints from negatives using enlarger, and mount and frame prints. May specialise in particular type of photographic work and be designated accordingly, e.g.

- Aerial Photographer

Fashion Photographer

Medical Photographer

Portrait Photographer

Scientific Photographer

Studio Photographer
- Commercial Photographer

Industrial Photographer

Police Photographer

Press Photographer

Stills Photographer

Wedding Photographer

Job Content Factors

<b>Workers</b>	
FP: GE12y PSP3-4y(D) / (Dip) or FP: GE10-11y PSP2y(B) / (PPC)	IP: IP: RQ: Q1 U2 V1
HC: AIS	
<b>Materials</b>	
SM: I1 P2 T2	EQ: P1 S2 M1
<b>Functions</b>	
MA: P1 D2 R3 M3 L2 PA: P1 U2 H2 E3	SA: A2 S2 P2 B2 R4
<b>Context</b>	
EC: T2 M1 L4 C05 SS: 6	TC: A2 I2 T2 SC: I0 (vy)
LMS: 3000-3500(50%SE)	ASIC: 936

3000-C PRINTMAKER

Creates two-dimensional visual forms, using one or more of a variety of printmaking techniques, in order to communicate an impression or idea.

Conceives and develops drawings and other art work, and determines printmaking method such as raised (relief), recessed (intaglio), flat (lithography) or stencil (including silk screen printing) which will be most effective to reproduce conceived art work, or uses preferred printmaking technique. Prepares printmaking substrate e.g. wood or copper, according to chosen method, e.g. wood engraving or etching, using various tools and materials such that image of drawing is capable of being transferred. Inks surface of substrate as appropriate and transfers image to paper, cloth or other material.

May use more than one process on single graphic. May produce print with more than one colour, usually preparing a separate block or plate for each colour; uses registration methods to fit various blocks in successive steps of printing onto receiving substrate. May teach printmaking. May be designated according to type of printmaking technique used, e.g.

Etcher

Job Content Factors

<b>Workers</b>	
FP: GE NFR PSP or FP: GE12y PSP3-4y(D) / (Dip)	IP: IP: RQ: Q1 U2 V1
HC: ASI	
<b>Materials</b>	
SM: I1 P2 T2	EQ: P2 S1
<b>Functions</b>	
MA: P2 D3 RV LV PA: P1 U2 E2	SA: A1 I2 P2
<b>Context</b>	
EC: L1 SS: 4	TC: A1 I2 SC: 4 (vy)
LMS: 300 (0 %SE)	ASIC: 913

3000-D SCULPTOR

Creates three-dimensional decorative and representational forms in order to communicate an impression or idea by

carving or modelling materials such as wood, stone, clay or metal, engaging in any combination of the following activities.

Conceives and develops design for sculpture and decides on material and techniques to be used. Selects materials of suitable proportions, quality and texture. Arranges object(s), positions model or selects other visual form according to chosen subject matter. Sketches design of proposed sculpture or makes models of wax or plaster. Carves or otherwise models materials to desired form using hand or power tools. Models plastic substances such as clay or wax using fingers or hand tools to form objects. Fires clay objects in kiln. Prepares moulds for casting sculpture in metal. Devises artistic forms from metal using welding or metalworking equipment, or from stone using masonry tools.

May teach sculpture. May be designated according to technique or medium employed, or type of sculpture executed, e.g.

- Carver

Clay Modeller

Wood Sculptor
- Modeller

Metal Sculptor

Monument Sculptor

Job Content Factors

<b>Workers</b>	
FP: GE NFR PSP or FP: GE12y PSP3-4y(D) / (Dip)	IP: IP: RQ: Q1 U2 V1
HC: ASI	
<b>Materials</b>	
SM: I1 P2 T2	EQ: P1 S1 M2
<b>Functions</b>	
MA: P2 D3 RV LV PA: P1 U2 C2 H2 E2	SA: A1 S2 L2 I2 P2
<b>Context</b>	
EC: T2 L4 SS: V	TC: A2 I1 SC: V
LMS: 150 (0 %SE)	ASIC: 9137

3000-E TEACHER, ART (PRIVATE)

Instructs pupils in the practice, theory and history of art.

Plans program of study and participation for students; prepares and delivers lectures on history and theory of art; demonstrates use and selection of media and material such as oils, water colour, pen, pencil, palette, knife, clay, cloth, or paper; assigns problems relative to materials, design and expression for individual investigation and answer; provides guidance by demonstration, use of sample films and other media, and tours of art galleries and museums; grades students' work, and offers advice, criticism and encouragement.

May arrange for exhibitions of students' work. May specialise in teaching in one field of art and be designated accordingly, e.g.

- Teacher, Painting (Private)
- Teacher, Printmaking (Private)
- Teacher, Sculpturing (Private)

Related Occupations

- Occupation 2301-C : Primary School Teacher, Arts and Crafts
- Occupation 2302-B : Secondary School Teacher, Arts and Crafts
- Occupation 2310-B : Teacher, Art and Design (TAFE)

Job Content Factors

<b>Workers</b>	
FP: GE NFR PSP or FP: GE12y PSP3-4y(D) / (Dip)	IP: IP: RQ: Q1 U2 V1
HC: ASI	
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ: P2 S2 N2
<b>Functions</b>	
MA: P2 D2 R2 M3 L1 PA: P2 U2 E1	SA: L2 I2 P1

<i>Context</i>	
EC: L1	TC: A1
SS: 8	SC: 10 (vy)

LMS: 50 (0 %SE)

ASIC: 913.824

### 3001 DESIGNERS AND ILLUSTRATORS

This unit group covers occupations concerned with creating designs for presentation by the visual communications media, for garments, for the interior of homes and public buildings, for display and exhibition purposes and for industrial, commercial, and domestic products.

**Entry Requirements** demonstrated artistic ability plus a degree/diploma/para-professional certificate in a relevant area of art or design.

**Activities include** designing art and copy layouts for material to be presented by the visual communications media such as books, magazines, television and audio-visual presentations; creating original styles for garments; planning and designing interiors for homes, industrial, commercial and other institutions; and creating designs for the fabrication of industrial and commercial products, taking into account aesthetic qualities, technical requirements and any new technology available, safety factors, marketing considerations and business objectives.

#### 3001-A FASHION DESIGNER

Creates new types and styles of apparel, either by pursuing an original idea or by adapting an existing style.

Conceives and makes rough sketches of design for garment or fashion accessory such as handbag, shoes etc., using understanding of preferences and tastes of various ages and social groups, and knowledge of fabric behaviour and of methods of garment construction and manufacturing procedures. Prepares detailed sketch clearly showing front, back and every seam of garment. Chooses fabrics, colours and trim to complement style. Discusses new design with management, sales and manufacturing staff. Following final approval, in some cases after amendments to design have been made, works closely with patternmaker to produce a master pattern of new style and then supervises production of sample garment. Interprets overseas styles to suit Australian market, climate and manufacturing processes.

May be involved in process of producing garment.

##### *Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (Dip)	IP:
or FP: GE10-11y PSP2-3y(PPC)	IP:
HC: AIS	RQ: Q1 U1 V1
<i>Materials</i>	
SM: I1 P2 T2	EQ: P1 S2 M2
<i>Functions</i>	
MA: I2 P1 D2 RV M3 LV	
PA: P1 E1	SA: S2 L2 I2 B2 R4
<i>Context</i>	
EC: L1	TC: A1 T2
SS: 5	SC: 9 (vy)

LMS: 600-800 (? %SE)

ASIC: 6383

#### 3001-B GRAPHIC DESIGNER

Designs art and copy layouts for material to be presented by visual communications media such as books, magazines, newspapers, television and audio-visual presentations, packaging and point-of-sale merchandising.

Consults with client to determine objectives of the design exercise, in particular the information to be communicated by the artwork, the target audience and the image the client wishes to present, in addition to functional and economic requirements. Analyses client's needs, undertakes research in relevant areas and plans presentation of material. Develops one or more solutions by determining size and arrangement of illustrative material and copy, selecting style and size of type and arranging layout based upon available space, knowledge of layout principles, and aesthetic design concepts. Submits preferred design solution to client for approval. Prepares notes and instructions for finishing or layout artists who assemble and prepare final artwork for printing. Reviews final layout and suggests improvements as needed as work progresses through the proofing stages.

May work as a consultant or as a member of a design group. May prepare illustrations or rough sketches of material according to requirements of client or supervisor. May prepare series of drawings to illustrate sequence and timing of story development for television production. May mark up copy, paste up elements and assemble finished artwork for printer or client approval. May specify paper, ink or printing process to be used. May supervise photography of artwork. May create and draw motion picture animated cartoons and commercials delineating, in successive drawings, action necessary to portray and dramatise movement of characters, and be designated accordingly,

Animator

May design and set up exhibitions and displays for purposes such as advertising, publicity and education, and be designated accordingly,

Display Artist

May specialise in a particular field and be designated accordingly, e.g.

Book, Magazine or Publication Designer

Package Designer

May design sets, scenery and production visuals for television, motion picture and stage presentations and be designated accordingly,

Set Designer

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (Dip)	IP:
HC: AIS	RQ: P2 Q1 U2 V1
<i>Materials</i>	
SM: D2 I1 P2 T2	EQ: P1 S2
<i>Functions</i>	
MA: A2 P2 D2 RV M3 L1	
PA: P1 E1	SA: S1 P2 B2 R4
<i>Context</i>	
EC: L1	TC: A1 T2
SS: 5	SC: 9 (vy)
LMS: 1500-2000(? %SE)	ASIC: 264,913

3001-C INDUSTRIAL DESIGNER  
Product Designer

Is concerned with commercial and industrial product development and the implementation of ideas regarding products, and creates designs for the mass fabrication of products taking into account aesthetic qualities, technical requirements and other factors.

Studies purpose and undertakes research and development work including market research, determines cost limitations, available materials and methods of production, technical requirements and any new technology available, safety factors, marketing considerations and the business objectives, and other factors influencing the design of a wide variety of products. Formulates design to achieve a pleasing appearance comparable with utilitarian function and cost requirements. Prepares sketches showing style, shape, size and general appearance of products such as domestic appliances, electrical and electronic goods, medical equipment and motor vehicles. Instructs other workers regarding the making of models and/or patterns of products. Works closely with production and marketing personnel.

May make technical drawings, schematic diagrams and reports of products and parts thereof in order to communicate manufacturing details to production engineers. May be required to modify design to meet manufacturing or cost requirements. May specialise in design of particular type of product and be designated accordingly, e.g.

- Furniture Designer
- Jewellery Designer
- Textile Designer
- Glassware Designer
- Pottery Designer
- Wallpaper Designer

Related Occupations

Minor Group 204 : Engineering Occupations

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (Dip)	IP:
HC: AIS	RQ: P2 Q1 U2 V2
<i>Materials</i>	
SM: D2 I1 P2 T2	EQ: P2 S2
<i>Functions</i>	
MA: I2 A2 P2 D2 RV M2 L1	
PA: P2 U1 E1	SA: S1 P2 B2 R4
<i>Context</i>	
EC: L1	TC: A1 T2
SS: 5	SC: 9 (vy)
LMS: 350-400 (? %SE)	ASIC: 633

3001-D INTERIOR DESIGNER  
Fine Furnisher

Plans and designs interiors for homes, industrial, commercial and institutional establishments and other structures, taking into account aesthetic considerations and functional, safety and other requirements.

Following consultation with client, analyses functional requirements, desired mood and purpose of furnishing interior based on client's needs and preferences. Devises harmonious colour scheme and sketches plans of areas showing arrangement of furniture and accessories. Estimates cost and

amount of materials required and presents plans to client for approval. Selects or recommends purchases of decorative and functional materials and accessories such as furniture, lighting fixtures and pictures or creates original designs for furnishings to conform with proposed scheme.

May direct workers engaged in implementing proposed scheme. May work as a consultant or as a member of a design group. May specialise in design of particular interiors or establishments and be designated accordingly, e.g.

- Domestic Interior Designer
- Industrial and Commercial Interior Designer

Related Occupations

- Occupation 6814-A : Interior Decorator
- Occupation 6814-A : Painter and Decorator
- Unit Group 2050 : Architecture Occupations

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (Dip)	IP:
HC: AIS	RQ: P2 Q1 U2 V1
<i>Materials</i>	
SM: D2 I1 P2 T2	EQ: S2
<i>Functions</i>	
MA: I2 P1 D2 RV M3 L2	
PA: P2 E1	SA: S1 P1 B2 R4
<i>Context</i>	
EC: M2 L1	TC: A1 I2 T2
SS: 5	SC: 9 (vy)
LMS: 650-1000 (? %SE)	ASIC: 633,638

3001-E ILLUSTRATOR

Draws and/or paints illustrations for use by various media to explain or adorn printed or spoken word.

Studies layouts, sketches of proposed illustrations and related materials to become familiar with assignment. Determines style, technique and medium best suited to produce desired effects and conform with reproduction requirements, or receives specific instructions regarding these variables. Formulates concept and renders illustration and detail from models, sketches, memory and imagination. Discusses illustration at various stages of completion and makes changes as necessary.

May select type, draw lettering, lay out material or perform related duties. May work for advertising agency. May specialise in illustrating scientific work or in illustrations in a particular scientific field and be designated accordingly, e.g.

- Scientific Illustrator
- Biological Illustrator
- Medical Illustrator

May prepare illustrations for reproduction in technical manuals, specifications, reference books and other engineering publications dealing with assembly, installation, operation and maintenance of machines, tools, equipment and engineering systems, and be designated accordingly,

- Technical Illustrator; Industrial Illustrator

May specialise in preparing book illustrations and be designated accordingly,

- Book Illustrator

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (Dip)	IP:
HC: AIS	RQ: Q1 U2 V1
<i>Materials</i>	
SM: D2 I1 P2 T2	EQ: P1
<i>Functions</i>	
MA: A2 P2 D2 RV M3 LV	
PA: P1 E1	SA: S2 P2
<i>Context</i>	
EC: L1	TC: A1 T2
SS: 5	SC: 9 (vy)
LMS: 300 (0 %SE)	ASIC: 913,264

### 3002 COMMERCIAL ART SUPPORT OCCUPATIONS

This unit group covers occupations concerned with preparing art work and photographs for commercial purposes, and assisting in photographic work.

**Entry Requirements** an associate diploma/para-professional certificate/basic vocational certificate in a relevant area.

**Activities include** designing art layouts to illustrate a variety of publications, audio-visual presentations and advertising material; producing finished artwork ready for reproduction; arranging and mounting copy material on paper according to instructions and photographing completed layout; retouching portrait, commercial or other photographic negatives; and assisting photographer in taking and developing photographs.

#### 3002-A FINISHED ARTIST Finishing Artist

Renders and draws objects designed by a graphic designer in a variety of media and assembles artwork ready for reproduction.

Uses a variety of art materials and equipment to produce finished artwork for newspapers, magazines, brochures, books, posters, showcards, greeting cards, point-of-sale displays, stationery, packaging materials and graphic devices for film, television and other audio-visual techniques. Gives appropriate technical instructions for the implementation of the work through the reprographic, printing or transmission process. Evaluates and makes corrections to artwork passing through the production phase.

##### Job Content Factors

<b>Workers</b>	
FP: GE10-12y PSP2-3y(Adip) / (PPC)	IP:
HC: AIS	RQ: Q1 U2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P1 S2
<b>Functions</b>	
MA: A2 P2 D3 RV M3 LV	
PA: P1 E1	SA: S2
<b>Context</b>	
EC: L1	TC: A1 T2
SS: 7	SC: 9 (vy)
LMS: 300 (0 %SE)	ASIC: 264

#### 3002-B LAYOUT ARTIST

Designs art layouts to illustrate books, magazines and newspapers or for use in audio-visuals, television commercials, advertisements, packaging, point-of-sale displays and in the production of signs.

Plans design of layout in accordance with client's requirements by studying drawings, illustrations, photographs, text and/or artwork to be reproduced, eliminating extraneous elements to conserve space and obtain most desirable effect. Paints or draws comprehensive sample of finished layout, and submits it for approval. Executes approved design, arranging drawings, photographs and text in well balanced artistic layout to meet objectives. Decides style and size of type to be used. Marks work sheets with explanatory legends for printing or reproduction.

May work from graphic designer's instructions.

##### Job Content Factors

<b>Workers</b>	
FP: GE10-12y PSP2-3y(Adip) / (PPC)	IP:
HC: AIS	RQ: Q1 U2 V1
<b>Materials</b>	
SM: D2 T1	EQ: P1 S2

##### Functions

MA: A1 P2 D3 RV M3 LV

PA: P1 E1

SA: S2 L2 P1

##### Context

EC: L1

TC: A1 T2

SS: 7

SC: 9 (vy)

LMS: 300 (0 %SE)

ASIC: 264

#### 3002-C PASTE-UP ARTIST Assembly Artist

Arranges and mounts copy material on paper according to instructions, and photographs completed layout.

Measures and marks paper according to artist's layout or customer's instructions to determine position of illustrations and printed legends. Cuts copy material such as illustrations, typed matter and various shapes of black construction paper. Attaches material on allocated space or positions it for spot emphasis or background using adhesives. Prepares type headings to specified size and style using bench type photo-lettering machine. Photographs illustrations directly onto paper, reducing or enlarging image using automatic focusing studio camera. Develops and fixes photographs and headings, and dries them on heated drum. Draws in borders, blocks, lines, outlines and emphasis marks.

##### Job Content Factors

<b>Workers</b>	
FP: GE10-12y PSP2-3y(Adip) / (PPC)	IP:
HC: AIS	RQ: Q2 V1
<b>Materials</b>	
SM: D2 T1	EQ: P1 S2
<b>Functions</b>	
MA: P2 D3 R3 M3 L3	
PA: P1 U2 E1	SA: S1
<b>Context</b>	
EC: L1	TC: A1 T2
SS: 6	SC: 9 (vy)
LMS: 400 (0 %SE)	ASIC: 264

#### 3002-D PHOTOGRAPH RETOUCHER

Retouches portrait, commercial or other photographic negatives and prints to accentuate desirable features of subject.

Examines negative or print to determine which features should be emphasised or minimized. Paints negative or print with retouching medium so that retouching pencil will mark glossy surface. Shades negative or print with pencil or airbrush to smooth facial contours, conceal blemishes, soften harsh highlights or emphasize desirable features. Brushes or sprays colours on print to accentuate lights and shadows and produce clear and attractive features.

May colour photographic portraits with oil colours in order to give them natural, lifelike appearance and be designated accordingly,  
Colourist

Job Content Factors

Workers	
FP: GE10-11y PSP2-3y(PPC) or FP: GE9-10y PSP6-12m(B)	IP: IP: E1y RQ: Q2 V1
Materials	
SM: D2 T1	EQ: P1 S2
Functions	
MA: P2 D3 R3 L2 PA: P1 U2 E1	SA: A2 S2
Context	
EC: L1 SS: 7	TC: A1 SC: 9 (vy)
LMS: 400 (0 %SE)	ASIC: 936

3002-E STUDIO ASSISTANT  
Camera Assistant; Photographer's Assistant

Assists photographer in taking and developing photographs.  
Arranges lights and screens, positions camera at proper angle and moves objects to secure desired background for photographs as directed. Cleans and oils camera equipment, and recharges camera batteries. Threads camera manually with film preparatory to filming. Loads and unloads film

magazines as directed. Assists with darkroom duties such as mixing chemical solutions and developing films, and does more routine printing of photographs.  
May label photographs, sign out equipment, carry heavy equipment and loading film on location, hire models, scenery and/or props.

Job Content Factors

Workers	
FP: GE10-11y PSP2-3y(PPC) or FP: GE9-10y PSP6-12m(B)	IP: IP: RQ: V1
Materials	
SM: D2 T1	EQ: S1 M2
Functions	
MA: D3 R4 L3 PA: P1 U2 H2 B2 E3	SA: S1
Context	
EC: L1 C05 SS: 7	TC: A1 SC: 9 (vy)
LMS: 300 (0 %SE)	ASIC: 936

3002-Z COMMERCIAL ART SUPPORT  
OCCUPATIONS nec

This residual group covers commercial art support occupations not elsewhere classified in Unit Group 3002, e.g.  
Artificial Flower Maker  
Background-and-Title Artist  
Lettering Artist

3003 CRAFT OCCUPATIONS

This unit group covers occupations normally concerned with producing individual one-of-a-kind items made by hand and in a personally interpreted manner.  
**Entry Requirements** demonstrated artistic ability rather than formal entry requirements, however degree/diploma courses in art which include craft subjects are available.  
**Activities include** moulding plastic clay to form handcrafted pottery; selecting, shaping and/or decorating a variety of materials such as wood, metal, leather, glass, plastic, paper, fibres or fabric in order to produce an artistic work; and marketing finished products.

3003-A POTTER

Moulds plastic clay to form handcrafted pottery according to previously conceived design and using either handbuilding or wheel techniques separately or in combination.  
Conceives style and shape into which pottery piece is to be formed. Moulds plastic clay into items such as vases, bowls and pots either by hand or as clay revolves on potters wheel, gradually raising and shaping piece to desired form and size. Constantly adjusts speed of wheel to conform with changing firmness of clay as piece becomes larger and its walls thinner, judging degrees of change by feel. Trims and smooths surface of finished piece, and separates from plaster bat. Places finished piece in an electrically, gas or oil fired kiln to fire. Is involved in marketing of finished product.  
May paint decorative patterns on finished piece prior to firing. May undertake major works on commission for exhibitions, public and private collections and/or market finished products through craft shops or directly. May teach pottery.

Job Content Factors

Workers	
FP: GE NFR PSP or FP: GE12y PSP3-4y(D) / (Dip)	IP: IP: RQ: Q1 U2 V1
Materials	
SM: I2 T1	EQ: S1 M1
Functions	
MA: A2 P2 D2 RV M3 LV PA: P1 U2 C2 H2 E2	SA: A2 S2 I2 P2
Context	
EC: L1 SS: V	TC: I1 SC: V
LMS: 200 (0 %SE)	ASIC: 2864

3003-Z CRAFT OCCUPATIONS nec

This residual group covers craft occupations not elsewhere classified in Unit Group 3003, e.g.  
Fibre Craftworker Glass Craftworker  
Leather Craftworker Metal Craftworker  
Paper Craftworker Plastics Craftworker  
Printing/Batik Craftworker Wood Craftworker  
Teacher, Handicrafts (Private)

3009 OTHER VISUAL ARTS, CRAFT AND DESIGN OCCUPATIONS

This residual unit group covers visual arts, craft and design occupations not elsewhere classified in Minor Group 300.

Activities include designing and installing window or interior displays of merchandise.

3009-A WINDOW DRESSER  
Display Person; Visual Merchandiser

Designs and installs window or interior displays of merchandise such that goods are presented to the best advantage.

Prepares sketch or model showing layout, colour and other features, and submits it for approval. Obtains props and any other accessories required such as metal, paper, wood and other materials, and constructs display. Sets up and arranges fabricated display in store window or other designated area. Arranges merchandise or articles to be shown on and around display.

Job Content Factors

Workers	
FP: GE9-10y PSP	IP: T2y
or FP: GE10-11y PSP30m(PPC)	IP:
HC: AIS	RQ: Q1 V2

Materials	
SM: D2 I2 P2 T1	EQ: S2
Functions	
MA: A2 P2 D3 R3 M3 L2	
PA: U1 H2 W1 E2	SA: S1
Context	
EC: L1	TC: A1 T2
SS: 6	SC: 8 (vy)
LMS: 1000 (5 %SE)	ASIC: 6382

3009-Z VISUAL ARTS, CRAFT AND DESIGN  
OCCUPATIONS nec

This residual group covers visual arts, craft and design occupations not elsewhere classified in Minor Group 300, e.g.

Delineator  
Show Card Artist; Ticket Writer

MINOR GROUP 301  
WRITING OCCUPATIONS

Writing Occupations are classified in the following unit groups.

- 3010 Journalists
- 3011 Authors and Related Occupations
- 3019 Other Writing Occupations

3010 JOURNALISTS

This unit group covers occupations concerned with gathering and selecting information regarding newsworthy events, and writing and editing reports and articles for newspapers, magazines and newsagencies, and for news and current affairs programs for radio and television.

**Entry Requirements** a degree/diploma/associate diploma in journalism, or satisfactory completion of a 4-year cadetship with a newspaper company, or a degree and satisfactory completion of a one-year cadetship, plus up to 20 years' experience.

**Activities include** directing preparation of particular section of newspaper, magazine or other publication; directing gathering, selecting and editing of news; assessing suitability of reports and articles for publication or broadcasting, editing as necessary; writing comments on topics of current interest; and collecting and analysing facts, and writing articles regarding newsworthy events.

3010-A ASSISTANT EDITOR

Assumes responsibility for and directs preparation of particular section of newspaper, magazine or other publication.

Assigns reporting staff to obtain news coverage of particular area of readership interest e.g. sports, finance, foreign affairs using extensive knowledge of the field and in accordance with editorial policy. Reviews copy for publication ensuring that it conforms with accepted rules of style and format. Attends meetings and events relevant to particular area of expertise, and interviews leading personalities and other persons in the field.

May edit copy, write headline and plan layout of news item in appropriate section of publication. May prepare news and feature copy. May write articles or critical reviews for section of publication for which he/she is responsible. May specialise in a particular area and be designated accordingly, e.g.

- Agricultural Editor
- Art Editor
- Features Editor
- Finance Editor
- Sports Editor

May allocate assignments to press photographers, select photographs for news or pictorial value, write descriptive text to accompany picture, plan layout of publication and be designated accordingly,

Picture Editor

Job Content Factors

Workers	
FP: GE12y PSP3y(D)	IP: E5-10y
or FP: GE12y	IP: E5-10y
HC: AIS	RQ: Q2 U2

Materials

SM: D2 I2 P1	EQ: K2
Functions	
MA: I2 A1 P1 D2 R2 M3 L1	
PA: E1	SA: S1 I2 M2 B1 R3-4
Context	
EC: L1	TC: A1 I1 T1
SS: 10	SC: 10 (vy)

LMS: 200 (0 %SE)	ASIC: 264
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3010-B CHIEF OF STAFF (NEWS)  
News Editor

Directs gathering, selection and editing of news for newspaper or newsagency, or for television or radio news reports or public affairs programs, by performing any combination of the following duties.

Assigns reporting staff to cover various news events, acting on information received by telephone or personal contact. Prepares rosters of reporting staff and approves leave and expenses incurred. Hires casual reporting staff where necessary, and arranges payment for all reporting staff.

Job Content Factors

Workers	
FP: GE12y PSP3y(D)	IP: E15-20y
or FP: GE12y	IP: E15-20y
HC: AIS	RQ: Q2 U2
Materials	
SM: D2 P1 T2	EQ: K2
Functions	
MA: I2 A1 P1 D2 R2 M3 L1	
PA: E1	SA: L1 B1 R4-3

Context	
EC: L1	TC: A1 I1 T1
SS: 10	SC: 10 (vy)
LMS: 200 (0 %SE)	ASIC: 264,913

3010-C REPORTER

Collects and analyses facts about newsworthy events by interview, investigation or observation and writes stories for newspaper, newsagency, television or radio news reports or public affairs programs to meet relevant deadlines.

Reports to scene of event as directed. Interviews persons and observes events to obtain and verify story facts and to develop leads for future news items. Takes notes and reads publicity releases, copies of speeches or similar material to facilitate organisation and writing of story. Writes or keys in story using visual display unit to meet relevant deadline, referring to reference books, newspaper files or other authoritative sources to secure additional relevant facts. In writing report, either conforms to prescribed editorial policy or supplies objective account depending on news organisation. Refers stories to chief of staff or editor for approval. Receives and evaluates news reports and suggestions for future stories.

May be required to transmit a balanced and coherent story to editorial staff using telephone on occasions when little time is available to prepare a written report. May specialise in one area of interest such as sport, political affairs, fashion or science and technology, and be required to produce, at very short notice, balanced, informed and perceptive appraisals of new developments, inventions or discoveries in the field. May specialise in reporting stories, articles and news items by mail, telephone, radio or telegraph from locations distant from publishing or broadcasting establishment, or in writing newspaper stories of humorous, interpretive, narrative or otherwise subjective character or in reporting in specialist areas and be designated accordingly, e.g.

Correspondent	Foreign Correspondent
Columnist	Feature Reporter
Agricultural Reporter	Trade Reporter
Turf Reporter	

May work as reporter for television news programs and be designated accordingly,  
Roundsman/woman

May write critical reviews in particular area of expertise and be designated accordingly, e.g.

Art Critic	Drama Critic
Film Critic	Literary Critic
Music Critic	

May write comments on topics of current interest to stimulate or mould public opinion in accordance with policies of publication and be designated accordingly,

Leader Writer; Editorial Writer

Job Content Factors	
Workers	
FP: GE12y PSP3-4y(D) / (Adip)	IP: T1y
or FP: GE12y	IP: T4y
HC: ASI	RQ: P2 Q2 U2 V2
Materials	
SM: D1 I2 P2	EQ: K2
Functions	
MA: I1 A1 P2 D2 R3 M3 L1	
PA: P2 E1	SA: S1 I2

Context	
EC: T2 L4	TC: A1 I1 T1
SS: 6	SC: 10 (vy)
LMS: 2000 (0 %SE)	ASIC: 913,264

3010-D SUB-EDITOR

Assesses suitability of reports and articles for publication or broadcasting in terms of public interest and conformity with established style and format to meet relevant deadlines, and edits as necessary, performing any combination of the following activities.

Combines many lines of inquiry on news item to produce a coherent story, frequently at short notice to meet deadline. Advises editor regarding suitability of material submitted by outside contributors. Determines presentation of material from newsagencies and ensures that report is suitable for publication in terms of news value and editorial policy. Reads copy to detect errors in spelling, construction, continuity, punctuation and content. Verifies facts, such as birth dates of persons mentioned in news stories, by reference to newspaper files or other sources and by discussion with writers. Ensures that news item gives accurate impression of information to which it refers and is not misleading or libellous. Writes headlines ensuring that they fit space allocated to individual story on copy. Instructs printer regarding type to use for headlines and text by marking copy. Attaches photographs and drawings to finished copy for preparation of printing plates. Usually has work approved by chief sub-editor before submitting it to printer. Reads proofs of material set in type for spelling and other errors.

May write or rewrite stories or reduce their length as required without sacrificing clarity or important points in the process. May specialise in editing certain areas of interest and be designated accordingly, e.g.

Sports Sub-editor

May plan layout of news stories for publication as a whole, taking into account portion of each column allocated to advertising matter, and be responsible for entire editing process and be designated accordingly,

Chief Sub-editor

May designate type size to conform with layout and allocated space of copy to be printed on advertising pages of publications, and be designated accordingly,

Typographer

Job Content Factors	
Workers	
FP: GE12y PSP3y(D)	IP: E5-10y
or FP: GE12y	IP: E5-10y
HC: ASI	RQ: P2 Q2 U2 V2
Materials	
SM: D1 I2 P2	EQ: K2
Functions	
MA: I1 A1 P2 D2 R3 M3 L1	
PA: E1	SA: S2 B2 R4-3
Context	
EC: L1	TC: A1 I1 T1
SS: 6	SC: 10 (vy)
LMS: 250 (0 %SE)	ASIC: 264

3010-Z JOURNALISTS nec

This residual group covers journalists not elsewhere classified in Unit Group 3010.

3011 AUTHORS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with writing and editing literary works for publication and scripts for stage, film, radio or television presentations.

**Entry Requirements** demonstrated literary ability rather than formal entry requirements in most cases, although persons entering the occupations of book editor and script editor usually require a degree; however degree/diploma and associate diploma courses in professional and creative writing, and diploma courses in dramatic arts and film and television, which include studies in scriptwriting, are available.

**Activities include** planning and writing literary works for publication; writing original scripts for stage, film, radio and television productions; evaluating manuscripts of books to determine suitability for publication, suggesting changes where necessary; and editing and supervising preparation of script material for television, radio, stage or motion picture presentations.

3011-A AUTHOR

Plans and writes literary works for publication.

Chooses subject for theme of essay, play, novel, poem or other literary composition. Conducts research into subject to establish factual content, assemble background material and obtain other necessary data. Plans and organises material and composes original manuscript. Revises work, ensuring coherence of style, proper development of theme or plot and characterisation.

May be commissioned to write story of particular type and length for a literary journal. May write work for radio or television. May specialise in a particular form of writing and be designated accordingly, e.g.

- Novelist
- Playwright; Dramatist; Theatrical Writer
- Poet

Job Content Factors

<i>Workers</i>	
FP: GE NFR PSP or FP: GE12y PSP3y(D) / (Dip)	IP: IP:
HC: ASI	RQ: Q1 U2 V2
<i>Materials</i>	
SM: D2 I1 P2 T2	EQ: K2
<i>Functions</i>	
MA: I1 A2 P1 DV RV L1 PA: P2 S1 E1	SA: A1 S2 P2
<i>Context</i>	
EC: L1 SS: V	TC: I1 T2 SC: V

LMS: 2000 (99%SE) ASIC: 264,913

May write material read by announcers to introduce and connect various parts of presentations such as sports or musical programs, or write text for musical works such as opera, cantata or musical comedy, and be designated accordingly,

- Continuity Writer
- Librettist

May specialise in writing material for screen productions and be designated accordingly,

- Screenwriter

Job Content Factors

<i>Workers</i>	
FP: GE NFR PSP or FP: GE12y PSP3y(D) / (Dip)	IP: IP:
HC: ASI	RQ: Q2 U2 V2
<i>Materials</i>	
SM: D2 I1 P2	EQ: K2
<i>Functions</i>	
MA: I1 A2 P2 D2 R3 L1 PA: P2 E1	SA: A2 S2 P2
<i>Context</i>	
EC: L1 SS: 8	TC: A1 I1 T1 SC: V

LMS: 250 (0 %SE) ASIC: 264,913

3011-C BOOK EDITOR

Evaluates manuscripts of books to determine suitability for publication and supervises preparation of manuscript for publication.

Reviews and evaluates manuscripts of novels, biographies, collections of short stories, essays and poems, text books and other books submitted by authors and literary agents. Makes recommendations to publisher regarding acceptability of material for publication and conditions of publication contract. Suggests changes in manuscript and negotiates with author regarding details of publication such as royalties to be paid, publication date, and number of copies to be printed, according to knowledge of production requirements and estimation of public demand for book. Edits or supervises editing of material for coherence of style and punctuation and oversees preparation of manuscript for publication.

May negotiate with authors concerning contracts for future writing.

3011-B SCRIPT WRITER

Writes original scripts for stage, film, radio and television productions, working alone or as member of team.

Chooses own theme and subject matter, or writes on particular subject for specific occasion, as directed. Conducts research into subject matter to obtain authentic details of manners, customs and speech, characteristic of specific period, locale or race. Writes script, including dialogue, description of characters and details of scenes and settings using knowledge of limitations and opportunities of media. Submits script to editor or producer of film, television or theatre company for approval.

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3y(D) / (Dip)	IP: T2y
HC: AIS	RQ: P2 Q2 U2 V1
<i>Materials</i>	
SM: D1 I2 P2	EQ: K2
<i>Functions</i>	
MA: A1 P2 D2 RV L1	
PA: S1 E1	SA: S1 P2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1
SS: V	SC: V
LMS: 200 (0 %SE)	ASIC: 264

3011-D SCRIPT EDITOR

Edits and supervises preparation of script material for radio, television, stage or motion picture production.

Reviews or assigns others to review scripts, stories and other material prepared by staff or freelance writers for radio, television, stage or motion picture presentation. Assesses

suitability of material for presentation by chosen medium and recommends purchase of material submitted by freelance writers. Edits material to ensure conformity with company policy.

May direct preparation of scripts to be read by announcers to introduce and connect various parts of musical, news, sports or special events programs.

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3y(D) / (Dip)	IP: T2y
HC: AIS	RQ: P2 U2 V1
<i>Materials</i>	
SM: D1 I2 P2	EQ: K2
<i>Functions</i>	
MA: A1 P2 D2 R3 L1	
PA: S1 E1	SA: A2 S2 P2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 T2
SS: 9	SC: V
LMS: 200 (0 %SE)	ASIC: 264

3019 OTHER WRITING OCCUPATIONS

This residual unit group covers occupations in writing fields not elsewhere classified in Minor Group 301.

**Activities include** composing written material to advertise products or services; learning journalistic skills according to a training schedule; and translating documents and correspondence into another specified language.

3019-A COPY-WRITER  
Advertising Copy-Writer

Composes written material to advertise products or services.

Discusses theme, style and length of copy with advertiser or management to determine most suitable approach, considering advertiser's particular needs and budget and media limitations. Studies product or service to ascertain principal selling features. Plans and writes headline and text, obtaining desired effect by skilful use of words and submits copy to editor for approval.

May specialise in particular medium, such as the press, radio or television.

Job Content Factors

<i>Workers</i>	
FP: GE10-12y PSP6m(B) or FP: GE10-11y PSP3y(PPC)	IP: T1y
HC: ASI	RQ: P2 Q1 U2 V2
<i>Materials</i>	
SM: D2 I1 P2	EQ: K2
<i>Functions</i>	
MA: I2 A2 P2 D2 R3 L1	
PA: E1	SA: A2 S2 P1
<i>Context</i>	
EC: L1	TC: A1 T2
SS: 8	SC: I1 (vy)
LMS: 200 (0 %SE)	ASIC: 6382

3019-B TRANSLATOR

Translates written matter from one language into one or more other languages.

Studies original text to comprehend meaning and converts it into another language, ensuring that original meaning is retained and consulting dictionaries and other reference sources as necessary. Ensures that phraseology and terminology of legal, technical or scientific texts are correctly rendered, and endeavours to convey the original spirit and feeling of literary works in translation.

May revise translations to improve them. May also be required to act as an Interpreter. Usually specialises in particular language(s), or in particular type of subject matter such as political and legal documents, or business correspondence, scientific papers or literary works, and is designated accordingly, e.g.

Translator, German                      Translator, Bilingual  
Translator, Multilingual  
Translator, Legal and Commercial  
Translator, Scientific

May translate material from one language into another only and be designated accordingly,

Translator, One-way

Related Occupation

Occupation 4299-A : Interpreter

Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3y(D) / (Dip) or FP: GE12y PSP1-2y(Adip)	IP: T1y
HC: SIC	RQ: S2 U2 V1 A2
<i>Materials</i>	
SM: D1 P2	EQ: K2
<i>Functions</i>	
MA: A2 R3 L1	
PA: P2 E1	SA: S2 P2 B2 R4-3

<i>Context</i>	
EC: L1	TC: A1
SS: 6	SC: 9 (vy)
<hr/>	
LMS: 100-250 (0 %SE)	ASIC: 6389

**3019-C CADET JOURNALIST**

Is instructed progressively throughout cadetship in practical journalism as it operates within the office in which cadet is employed.

Receives regular instruction in and practical demonstrations of activities of various departments of office in which employed, being familiarised with the handling of news from its collection to its publication including matters such as reporting and news preparation, sub-editing and proof correction. Attends lectures on the theory and practice of journalism including areas such as libel, relevant laws or practices currently in force, economics and politics. Learns shorthand and typing. Is tested from time to time on areas covered in instruction sessions. Accompanies classified journalists on assignments. Prepares copy and discusses any changes required with supervisor.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP	IP:
or FP: GE12y PSP3y(D)	IP:
HC: ASI	RQ: Q2 U2 V2
<hr/>	
<i>Materials</i>	
SM: D2 I2 P1	EQ: K1
<hr/>	
<i>Functions</i>	
MA: I2 A2 P2 D3 R3 M3 L1	
PA: P2 E1	SA: S1 I2
<hr/>	
<i>Context</i>	
EC: M1 L4	TC: A1 I1 T2
SS: 1	SC: 5 (vy)
<hr/>	
LMS: 1000 (0 %SE)	ASIC: 913,264

**3019-Z WRITING OCCUPATIONS nec**

This residual group covers writing occupations not elsewhere classified in Minor Group 301, e.g.

Crossword Puzzle Writer      Editorial Assistant

MINOR GROUP 302

PERFORMING AND AUDIO-VISUAL ARTS OCCUPATIONS

Performing and Audio-Visual Arts Occupations are classified in the following unit groups.

- 3020 Performing Arts Directors and Related Occupations
- 3021 Actors
- 3022 Popular Entertainers and Stage Performers
- 3023 Performing Musicians
- 3024 Composers and Related Occupations
- 3025 Dancers
- 3026 Models
- 3027 Announcers and Related Occupations
- 3028 Performing and Audio-Visual Arts Support Occupations

3020 PERFORMING ARTS DIRECTORS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with producing and directing theatrical performances, motion picture productions and radio or television programs for entertainment, information and instruction.

**Entry Requirements** on-the-job training at junior levels and experience rather than formal qualifications; however degree/diploma courses in drama, dramatic arts, and film and television, and associate diploma courses in performing arts and theatre practice are available.

**Activities include** supervising and co-ordinating activities of a studio or set; directing dramatic, musical, technical, photographic, artistic and dancing activities involved in a production; making arrangements associated with the auditioning and selection of the cast; and editing film for final presentation of production.

*Related Occupations*

- Unit Group 1023 : Producer (Films and Stage)
- Unit Group 1023 : Production Manager, Television Films and Stage
- Unit Group 1023 : Program Manager
- Unit Group 1023 : Recording Director

3020-A ART DIRECTOR (TELEVISION, FILMS AND STAGE)

Plans, organises, directs and controls artistic aspects of motion picture, stage or television productions and is responsible for physical look of presentation.

Reads books, script or scenarios concerning work to be performed to determine theme and setting. In co-operation with set designer, assesses staging requirements for a production, plans decor and selects costumes, furnishings, props and artefacts for aesthetic appeal and realistic portrayal of setting. Directs placing of items on set to permit free movement of cast and to provide a clear view to audience or camera. Supervises and co-ordinates activities of all staff

involved in follow through of initial design including wardrobe supervisor, make-up artists and property personnel to achieve harmonious overall artistic presentation.

May prepare sketches, scale drawings or models of sets and scenes using artistic materials.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP3y(D) / (Dip)	IP: T6m E0-5y
or FP: GE NFR	IP: T6m E5-10y
HC: ASE	RQ: Q1 U2 V1
<i>Materials</i>	
SM: D2 I2 P1 T2	EQ: P1
<i>Functions</i>	
MA: I2 A2 P1 D2 R2 L1	
PA: P1 E1	SA: L1 B1 R3-2

<i>Context</i>	
EC: T2 L1	TC: A1 I1 T2
SS: 10	SC: 10 (vy)
<hr/>	
LMS: 100 (0 %SE)	ASIC: 913

**3020-B CASTING DIRECTOR**  
**Casting Officer**

Is responsible for suggesting appropriate cast for motion picture, stage or television production and for arrangements associated with engaging staff.

Maintains talent file to include information such as personality types, specialties, past performance and availability of performers. Views professional, amateur and foreign productions to search out and assess talent. Reads script of programs proposed for production to establish cast requirements both numerically and for type of characterisation appropriate to each part, and to estimate cast costs. Submits lists of suitable performers to producer and director for final selection. Conducts screen tests and auditions to verify suitability of performers, considering factors such as physical size and appearance, quality of voice, expressiveness and experience. Negotiates with performers and agents to obtain contractual agreements on items such as salary, fees, program credits, residual payments, performance dates and production schedules. Attends rehearsals and presentation to evaluate dramatic talent of performers hired.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR PSP	IP: T6m E10y
or FP: GE12y PSP3y(Dip) / (D)	IP: T6m E3-4y
HC: ASE	RQ: Q2 U2 V1
<hr/>	
<i>Materials</i>	
SM: I2 P1	EQ:
<hr/>	
<i>Functions</i>	
MA: I2 A1 P1 D2 R2 M3 L1	
PA: E1	SA: L1 P1 B1 R4-3
<hr/>	
<i>Context</i>	
EC: T2 L1	TC: A1 I1 T2
SS: 10	SC: 10 (vy)
<hr/>	
LMS: 100 (0 %SE)	ASIC: 913

**3020-C DIRECTOR (FILM AND STAGE)**

Takes final artistic responsibility for stage or motion picture production; interprets script, directs and instructs cast and production personnel to achieve desired characterisation, treatment and style of presentation.

Is briefed by producer on aims of production and commercial considerations as appropriate. Studies script to determine artistic interpretation. Confers with other specialists such as producer, musical director and director of photography as appropriate to develop suitability of script, costumes, scenery designs, choreography, sound and lighting effects, and filming techniques for motion picture productions. Selects cast or assists producer or casting officer in auditions and selections. Assigns parts to cast and explains desired interpretation. Schedules and directs rehearsals to obtain required standard of production. Co-ordinates activities of production and technical staff and instructs and criticises performers in interpretation of script.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP3-4y(D) / (Dip)	IP: T1y E3-7y
or FP: GE NFR	IP: T1y E12-15y
HC: ASE	RQ: P2 Q2 U2 V2
<hr/>	
<i>Materials</i>	
SM: D2 I2 P1	EQ:
<hr/>	
<i>Functions</i>	
MA: I1 A2 P1 D1 R2 L1	
PA: E1	SA: L1 M2 R4-3

<i>Context</i>	
EC: L1	TC: A1 I2 T2
SS: 10	SC: 10 (vy)
<hr/>	
LMS: 100 (0 %SE)	ASIC: 913

**3020-D DIRECTOR OF PHOTOGRAPHY**  
**Cinematographer**

Is responsible for final quality of photography of a motion picture production and plans, directs and co-ordinates filming.

Confers with director regarding interpretation of scene and desired effects, and plans photographic aspects of film, frequently shot by shot. Determines required lighting, film, shutter angles, filter factors, camera distance, depth of field and focus, angles of view and other variables to produce desired effects. Selects cameras, accessories, equipment and film stock, instructs camera operators regarding camera set up, angles, distances, movement and other variables and signals cues for starting and stopping filming. Surveys set or location for potential problems, observes effects of lighting, measures lighting levels and co-ordinates necessary changes prior to filming. Views films after processing and makes adjustments, as necessary, to produce desired effects.

May work as part of a television program production unit and be designated accordingly,

Lighting Camera Operator

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP3y(D) / (Dip)	IP: T6m E4-7y
or FP: GE NFR	IP: T6m E5-10y
HC: ASE	RQ: Q2 U2 V1
<hr/>	
<i>Materials</i>	
SM: D2 I1 P2	EQ: P1
<hr/>	
<i>Functions</i>	
MA: I2 A2 P1 D1 R2 M3 L1	
PA: P1 E2	SA: L1 B1 R3-2
<hr/>	
<i>Context</i>	
EC: M1 L1	TC: A1 I2 T2
SS: 10	SC: 10 (vy)
<hr/>	
LMS: 100 (0 %SE)	ASIC: 913

**3020-E FILM EDITOR**

Is responsible for making decisions regarding scenes and takes of a motion picture or television production to be used in final presentation.

Views processed film with other members of production and directing personnel to analyse, evaluate and select scenes in terms of story continuity and dramatic and entertainment value, and to determine which scenes need to be improved or re-shot. Trims film segments to specific lengths and arranges and joins them in sequence such that story is presented with maximum effect to highlight mood, pace and climax of film. Ensures correct volume levels for sound tracks, that sound and image are synchronised and that finished product contains no inappropriate discontinuities.

May select stock shots from film library, as called for by script, and edit and incorporate them into film.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR PSP	IP: T6m E5y
or FP: GE12y PSP3y(D) / (Dip)	IP: T6m E2-5y
HC: AIE	RQ: P2 Q2 U2 V1
<hr/>	
<i>Materials</i>	
SM: D2 I1 P2 T2	EQ: P1 S2
<hr/>	
<i>Functions</i>	
MA: I2 A2 P1 D1 R3 L2	
PA: P1 E1	SA: S2 L2 B1 R3-4
<hr/>	
<i>Context</i>	
EC: M1 L1	TC: A1 I1 T2
SS: 10	SC: 10 (vy)
<hr/>	
LMS: 100 (0 %SE)	ASIC: 913

3020-F

FLOOR MANAGER (TELEVISION)

Plans, organises, supervises and co-ordinates activities of studio or set in production and presentation of television programs.

Confers with production and directing personnel concerning production requirements. Interprets stage or set diagrams to determine layout. Supervises studio crew engaged in placing scenery and stage equipment or properties. Conveys producer's instructions on floor during rehearsal and performance, and is responsible for smooth running of rehearsals and productions. Reads annotated script during rehearsals and performance and gives cues for lights, properties and sound effects using cue cards or head phones. Ensures that performers appear in the right place at the right time. Maintains contact between control room and the various sets.

May work on stage production, sometimes assuming responsibility for routine management of daily stage performance when production is ready for indefinite run, and be designated accordingly,

Stage Manager

Job Content Factors

Workers	
FP: GE11-12y PSP or FP: GE12y PSP3y(D) / (Dip)	IP: T6m E5-10y IP: T6m E5-10y
HC: ASE	RQ: Q2 U2 V2
Materials	
SM: D2 I2 P1 T2	EQ:
Functions	
MA: I2 A2 P1 D2 R2 L1 PA: E1	SA: S2 L2 B2 R3-4
Context	
EC: L1 SS: 10	TC: A1 I1 T2 SC: 10 (vy)
LMS: 100 (0 %SE)	ASIC: 913

3020-G

DIRECTOR (BROADCASTING)  
Producer (Broadcasting)

Is responsible for creative and financial aspects of a radio or television program and works in accordance with directions regarding program policy and content, and within approved budget, engaging in a combination of the following duties.

Plans program; writes script and continuity, or studies script to determine artistic interpretation. Performs administrative duties associated with preparation and presentation of programs. Briefs program guests and interviewers on subject matter to be discussed. Confers with specialists such as technical producer to develop suitable sound and lighting effects, set designs, costumes and choreography as appropriate. Assists in auditions and selections. Directs rehearsal, filming, taping and broadcast activities. Coaches cast in delivery of dramatic lines, criticises performances and suggests changes necessary to obtain required standard of production. Co-ordinates activities of production and technical staff to ensure desired mood, treatment and style of presentation. Edits tape and assembles program sequences to provide entertainment balance. Assists in control room/studio during presentation of program.

Job Content Factors

Workers	
FP: GE12y PSP or FP: GE12y PSP3y(D) / (Dip)	IP: T6m E5-10y IP: T6m E5-10y
HC: ASE	RQ: P2 Q2 U2 V2 A2
Materials	
SM: D2 I2 P1	EQ:
Functions	
MA: I2 A2 P1 D2 R2 M3 L1 PA: E1	SA: S2 L2 I1 M2 R3-4

Context	
EC: L1 SS: 10	TC: A1 I1 T2 SC: 10 (vy)
LMS: 100 (0 %SE)	ASIC: 913

3020-H

TECHNICAL PRODUCER  
Technical Director

Directs technical team and plans and organises required technical facilities, supervising and co-ordinating activities of subordinate specialist technicians to ensure technical quality of pictures and sound for radio or television programs.

Studies script to determine technical treatment. Attends production meetings to discuss program content, set locations, stage directions and technical production requirements. Establishes requirement on location for technical production facilities. Recommends to producer the purchase or improvement of audio-visual equipment. Plans and arranges for special effects requested by producer. Assigns task to technicians engaged in maintaining, operating and controlling lights, audio and video control equipment, microphones and cameras. Observes television picture through monitor to evaluate shooting and instructs video and camera operators to adjust equipment for desired technical quality.

Job Content Factors

Workers	
FP: GE12y PSP3y(Dip) or FP: GE NFR	IP: T6m E2-3y IP: T6m E5-10y
HC: AIR	RQ: Q2 U2 V1 A2
Materials	
SM: D2 P1 T2	EQ: P2
Functions	
MA: I2 A2 P1 D2 R2 M3 L1 PA: E1	SA: S2 L2 B1 R2-4
Context	
EC: T2 L1 SS: 10	TC: A1 I2 T2 SC: 10 (vy)
LMS: 100 (0 %SE)	ASIC: 335,913

3020-I

CHOREOGRAPHER

Creates original dances for stage, television, motion picture or nightclub productions, and instructs dancers in their interpretation and performance.

Studies production factors such as musical score, story or theme, and consults with production staff concerning interpretation required. Creates dances designed to harmonise with music and subject, illustrate unfolding of story, interpret emotion or complement musical show. Plans and records required movements of dances, demonstrating movements required and instructing dancers in desired interpretation.

May perform dances. May plan and arrange movements of performers and extras in pageants or other outdoor spectacles. May direct and stage dance presentation. May specialise in ballet, dances for musical shows or revues or other types of dancing presentations and be designated accordingly. May teach dance and direct a dance company.

Job Content Factors

Workers	
FP: GE12y PSP3y(D) / (Dip) or FP: GE NFR	IP: E5y IP: E7-10y
HC: AES	RQ: Q1 U2 V2
Materials	
SM: D2 I1 P2	EQ:
Functions	
MA: I2 A2 P1 D2 L2 PA: C1 B2	SA: S2 L2 P2 B2 R3-4
Context	
EC: T2 L1 SS: 1	TC: I1 T2 SC: 10 (vy)
LMS: 100 (0 %SE)	ASIC: 913

3021 ACTORS

This unit group covers occupations concerned with playing parts in dramatic productions and performing a variety of other activities for the purpose of entertaining audiences, and with teaching dramatic art.

**Entry Requirements** demonstrated acting ability rather than formal entry requirements, however degree/diploma courses in drama and dramatic arts are available. Private teachers of dramatic art require up to 10 years' experience.

**Activities include** portraying roles in theatre, motion picture, radio or television productions; entertaining audiences by performing humorously, singing, dancing, performing acrobatics, acting as a ventriloquist, performing impersonations or mimes, compering performances; and teaching dramatic art.

3021-A ACTOR  
Dramatic Artist

Portrays roles in dramatic productions for theatre, motion picture, radio, television or other audiences.

Studies play or production to gain understanding of part and characterisation required. Learns lines and cues, and rehearses part, interpreting role by speech and gesture as directed. Attends wardrobe fittings to ensure proper costume fit. Acts part in medium of presentation, endeavouring to interpret role as developed in rehearsals.

May take part in filmed commercials.

Job Content Factors

<i>Workers</i>	
FP: GE NFR PSP or FP: GE12y PSP3-4y(D) / (Dip)	IP: IP:
HC: ASE	RQ: Q1 U2 D1 V1
<i>Materials</i>	
SM: D2 I2 P1	EQ:
<i>Functions</i>	
MA: A2 P2 RV L1 PA: C1 B2 EV	SA: L1
<i>Context</i>	
EC: T2 M2 L1 SS: 6	TC: I1 T2 SC: I2 (vy)
LMS: 300 (0 %SE)	ASIC: 913

3021-B TEACHER, DRAMATIC ART (PRIVATE)

Coaches amateur or professional performers in techniques of acting.

Conducts impromptu readings to evaluate performer's abilities; selects suitable training methods based on competence of performer; instructs and drills performer in

such things as camera, stage or vocal techniques, and in interpretation of role in dramatic productions; advises performer on basic wardrobe, grooming and manner; teaches correct methods and techniques for auditions for specific parts in plays.

May coach actors for stage, screen or television performances and be designated accordingly,

Dramatic Coach

Related Occupation

Occupation 2326-B : Lecturer/Tutor, Dramatic Arts (Higher Education)

Job Content Factors

<i>Workers</i>	
FP: GE NFR PSP or FP: GE12y PSP3-4y(D) / (Dip)	IP: E5-10y IP: E3-4y
HC: ASE	RQ: Q1 U1 V2 A2
<i>Materials</i>	
SM: D2 I2 P1	EQ:
<i>Functions</i>	
MA: I2 A2 P2 D2 RV L1 PA: C2 E1	SA: S1 P1
<i>Context</i>	
EC: L1 SS: V	TC: A1 SC: V
LMS: 250 (0 %SE)	ASIC: 824

3021-Z ACTORS nec

This residual group covers acting and related occupations not elsewhere classified in Unit Group 3021, e.g.

Mime Puppeter

3022 POPULAR ENTERTAINERS AND STAGE PERFORMERS

This unit group covers occupations concerned with performing on stage in order to entertain audiences.

**Entry Requirements** demonstrated ability to entertain rather than formal entry requirements, however degree/diploma courses in drama and dramatic arts are available.

**Activities include** entertaining audiences by performing any combination of a variety of activities.

3022-A COMEDIAN

Performs humorously to entertain audience.

Tells jokes, delivers comic lines, sings humorous songs, and performs comedy dances and acts to make audience laugh. Wears funny costumes, contorts face or resorts to similar antics to amuse audience. May do amusing impersonations.

May specialise in a particular type of humorous entertainment and be designated accordingly, e.g.

Clown

Job Content Factors	
Workers	
FP: GE NFR PSP	IP:
or FP: GE12y PSP3-4y(D) / (Dip)	IP:
HC: ASE	RQ: Q1 U1 D1 V2
Materials	
SM: D2 I1 P2	EQ:
Functions	
MA: P2 RV L1	
PA: C2 S2 EV	SA: L1 P1
Context	
EC: M1 L1	TC: I1 T2
SS: 6	SC: I2 (vy)
LMS: 500 (80%SE)	ASIC: 913

3022-B VARIETY ARTIST

Entertains live audiences by performing any combination of the following activities.

Dances, sings, plays a musical instrument, performs impersonations or mimes, acts as a ventriloquist, tells jokes and humorous stories, performs acrobatics, juggles, performs magical tricks, comperes performances for the purpose of entertainment.

May specialise in a particular entertainment activity and be designated accordingly, e.g.

Acrobat	Hypnotist
Impersonator	Juggler
Magician; Conjuror	Ventriloquist

Job Content Factors	
Workers	
FP: GE NFR PSP	IP:
or FP: GE12y PSP3-4y(D) / (Dip)	IP:
HC: ASE	RQ: Q1 U2 D1 V1
Materials	
SM: D2 I1 P2	EQ: PV KV
Functions	
MA: P2 RV L1	
PA: PV C2 W1 EV	SA: L1 P1
Context	
EC: M1 L1	TC: I1 T2
SS: 6	SC: I2 (vy)
LMS: 1000 (80%SE)	ASIC: 913

3022-Z POPULAR ENTERTAINERS AND STAGE PERFORMERS nec

This residual group covers popular entertainers and stage performers not elsewhere classified in Unit Group 3022, e.g.

Circus Ring Leader	Stripper
Stunt Actor	Vaudeville Artist

3023 PERFORMING MUSICIANS

This unit group covers occupations concerned with performing vocal and musical works, and with teaching music.

**Entry Requirements** demonstrated musical ability and experience in an appropriate area rather than formal entry requirements, although private music teachers may require a degree/diploma in music or music performance. Persons entering occupations in this group will normally have undergone considerable musical training during childhood.

**Activities include** conducting an orchestra or vocal ensemble; playing a musical instrument in a solo performance or as a member of an orchestra or other musical group and/or performing vocal works for the purpose of entertainment; teaching instrumental music and singing.

3023-A CHORAL DIRECTOR

Is responsible for securing from a vocal ensemble such as a choir, opera chorus or other singing group, the most musical and creative rendition possible of a particular vocal score or libretto.

Auditions and selects members of group. Selects music to accommodate talents and abilities of group, and to suit type of performance to be given. Studies composition and imagines effect of various combinations of voices. Assigns vocal parts to individual singers. Directs group at rehearsals and performances to achieve desired effects such as tonal and harmonic balance, dynamics, rhythms, tempos and shadings, utilising knowledge of conducting techniques, music theory and harmony, and characteristics, range, and individual talents of voices.

May schedule tours and performances. May adapt musical compositions to create a particular style for choral group. May conduct group and accompanying orchestra. May play musical instrument.

Job Content Factors	
Workers	
FP: GE NFR PSP	IP: E2-5y
or FP: GE12y PSP3-4y(D) / (Dip)	IP: E0-3y
HC: AES	RQ: Q1 U1 A1
Materials	
SM: D2 I2 P1	EQ: K2
Functions	
MA: A2 P1 D2 RV L1	
PA: P2 C2 E1	SA: S2 L2 P1 M2 B1 R3-2

Context

EC: T1 L1	TC: A2 I1
SS: 10	SC: 10 (vy)
LMS: 200 (0 %SE)	ASIC: 913

3023-B CONCERT AND OPERA SINGER

Sings classical or church music in musical programs, or performs in stage presentations of opera.

Studies and rehearses words and music for performance as soloist or member of vocal ensemble using sheet music, vocal score or libretto. Sings music such as lieder, arias and cantatas, combining musical training, expression and quality of voice with histrionic ability. Watches conductor for directions during rehearsal or performance, or works with accompanist. Frequently makes recordings of songs, arias etc.

May travel extensively to meet engagements in a variety of different locations. May be known according to voice range or singing specialty and be designated accordingly, e.g.

Baritone	Soprano
Lieder Singer	Recitalist
Vocal Soloist	

Job Content Factors

FP: GE NFR PSP	IP: E0-5y
or FP: GE12y PSP3-4y(D) / (Dip)	IP:
HC: AES	RQ: Q1 U2 D2 A2

SM: D2 I2 P1	EQ:
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MA: A2 P2 DV RV L2	
PA: W1 E1	SA: S2 L1 P1

EC: T1 L1	TC: I1
SS: 6	SC: 12 (vy)

LMS: 100 (80%SE)	ASIC: 913
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3023-C INSTRUMENTAL MUSICIAN  
Instrumentalist

Plays one or more instruments in recital, in accompaniment, or as member of orchestra, band or other musical group to entertain audiences or provide a musical background to some other form of entertainment.

Studies and rehearses score prior to performance. Plays music from score or by memory, frequently under direction of a conductor.

May make recordings of musical performance(s). May provide musical backing for popular records, television commercials, radio, television or motion picture productions, or play in a theatre, opera or ballet orchestra. May travel extensively to meet engagements in a variety of different locations. May work freelance. May improvise, transpose, compose, arrange or teach music. May specialise in a particular instrument or service performed and be designated accordingly, e.g.

Bassoonist	Bass Player
Bugler	Carillonneur
Cellist	Clarinetist
Drummer	Flautist
Guitarist	Harpist
Horn Player	Oboist
Organist	Percussionist
Pianist	Saxophonist
Trombonist	Trumpeter
Violinist	Violist
Accompanist	
Electronic Music Instrumentalist	

Job Content Factors

FP: GE NFR PSP	IP: E0-5y
or FP: GE12y PSP3-4y(D) / (Dip)	IP:
HC: ASI	RQ: Q1 U2 D2 A1

SM: D1 I2 P2 T2	EQ: P1 KV
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Functions

MA: A2 P2 DV RV L2	
PA: P1 C1 E2	SA: S2 L1 P1

EC: T1 L1	TC: I1
SS: 6	SC: 12 (vy)

LMS: 10000 (0 %SE)	ASIC: 913
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3023-D ORCHESTRA CONDUCTOR  
Band Leader; Maestro; Orchestra Leader

Is responsible for securing from an instrumental group such as a symphony orchestra or large band the most musical and creative rendition possible of a particular score.

Auditions and selects members of group. Selects music to accommodate talents and abilities of group, and to suit type of performance to be given. Assigns instrumental parts to individual musicians. Positions musicians in group to obtain balance and harmony of instruments in accordance with score. Memorises or familiarises self with complete musical score. Conducts rehearsals, instructing instrumentalists concerning rendition required, and endeavouring to make optimum use of each instrumentalist's talents. Conducts performance, controlling factors such as balance, rhythm, dynamics and entries of particular instruments, to create effect consistent with own interpretation of score.

May arrange and orchestrate score. May play instrument and act as soloist. May mark or have marked in the orchestral parts phrasing, fingering etc. May travel extensively to meet engagements in a variety of different locations. May arrange and/or conduct section tutorials and rehearsals.

Job Content Factors

FP: GE NFR PSP	IP: E2-5y
or FP: GE12y PSP3-4y(D) / (Dip)	IP: E0-5y
HC: ASI	RQ: P2 Q1 U2 D2 A1

SM: D1 I2 P2	EQ:
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MA: I1 A1 P1 D1 R2 L2	
PA: P1 C1 W1 E2	SA: L1 I2 M2 B1 R3-2

EC: T1 L1	TC: A2 I1 T2
SS: 10	SC: 10 (vy)

LMS: 50 (0 %SE)	ASIC: 913
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3023-E POPULAR SINGER  
Vocalist

Sings songs in popular idiom to entertain audiences.

Studies and rehearses music and special arrangements prior to performance. Sings in a group or individually on stage, radio and/or television for purpose of entertaining audiences. Frequently makes recordings of songs.

May travel extensively to meet engagements in a variety of different locations. May compose own songs. May accompany self on musical instrument. May be designated according to particular type of singing and material performed, e.g.

Blues Singer	Folk Singer
Jazz Singer	

Job Content Factors

FP: GE NFR PSP	IP: E0-3y
or FP: GE12y PSP3-4y(D) / (Dip)	IP:
HC: AES	RQ: Q1 U2 D2 A2

SM: D2 I2 P1	EQ: PV KV
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MA: P2 D3 L2	
PA: PV W1 EV	SA: L1 P1

Context	
EC: T1 L1	TC: A2 I1
SS: 6	SC: 12 (vy)
LMS: 100 (0 %SE)	
ASIC: 913	

3023-F

TEACHER, INSTRUMENTAL MUSIC (PRIVATE)

Teaches individuals or groups to read music and play musical instruments such as trumpet, drums, organ, piano, saxophone and violin.

Plans program of studies of instrumental music according to interest and abilities of students. Instructs students to play specific instrument by demonstration and audio-visual aids. Assigns exercises to develop aspects of instrumental technique appropriate to the instrument being taught.

May arrange for pupils to give music recitals and concerts, and to sit for examinations. May teach music theory, history, harmony, form and analysis, aural training and counterpoint. May conduct band or orchestral performances. May be designated according to type of musical instrument taught, e.g.

- Teacher, Accordion (Private)
- Teacher, Piano (Private)

Related Occupations

- Occupation 2301-D : Primary School Teacher, Music
- Occupation 2302-E : Secondary School Teacher, Music
- Occupation 2310-H : Teacher, Music (TAFE)

Job Content Factors	
Workers	
FP: GE NFR PSP	IP:
or FP: GE12y PSP3-4y(D) / (Dip)	IP:
HC: ASI	RQ: Q1 U1 A1
Materials	
SM: D2 I2 P1 T2	EQ: P1 KV
Functions	
MA: A2 P1 D2 R3 L1	
PA: P1 C1 E2	SA: S2 L2 P1

Context	
EC: L1	TC: A2 I1
SS: V	SC: V
LMS: 100 (99%SE)	
ASIC: 8244	

3023-G

TEACHER, VOCAL MUSIC (PRIVATE)

Teaches singing to individuals or groups.

Plans program of studies of vocal music according to interest and abilities of individuals or groups. Instructs students in fundamentals of singing and vocal expression. Instructs choral groups in musicianship and trains groups in ensemble singing. Assigns special exercises to develop breath control and singing voice.

May arrange music and prepare and direct choral groups in special programs or competitions. May teach music theory, history, harmony, counterpoint, form and analysis, and aural training. May provide private instruction and prepare individuals for recitals or examinations.

Job Content Factors	
Workers	
FP: GE NFR PSP	IP:
or FP: GE12y PSP3-4y(D) / (Dip)	IP:
HC: ASI	RQ: Q1 U1 A1
Materials	
SM: D2 I2 P1 T2	EQ: KV
Functions	
MA: A2 P1 D2 R3 L1	
PA: E1	SA: S2 L2 P1
Context	
EC: L1	TC: A2 I1
SS: V	SC: V
LMS: 200 (99%SE)	
ASIC: 8244	

3023-Z

PERFORMING MUSICIANS nec

This residual group covers performing musicians not elsewhere classified in Unit Group 3023, e.g.  
Chorister  
Chorus Singer  
Yodeller

3024

COMPOSERS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with composing, orchestrating, arranging and copying musical works or parts thereof.

**Entry Requirements** demonstrated musical ability in an appropriate area rather than formal entry requirements, however degree/diploma courses in music composition are available.

**Activities include** creating and writing musical compositions; providing orchestration for musical works; adapting and modifying musical compositions; and copying and compiling parts from musical scores for individual performers within a musical group.

3024-A

COMPOSER

Creates and writes musical compositions.

Invents melodic, harmonic and rhythmic structures such as canons, rondos and sonatas to express ideas and emotions in musical form, musical works such as symphonies and operas, and incidental music for films, plays and television presentations. Applies knowledge or understanding of

harmony, counterpoint, orchestration and musical forms. Translates composition into standard musical signs and symbols for reproduction or performance purposes.

May play musical instruments to assist in composing. May specialise in one type of music e.g. popular music, or in compositions for particular instruments. May supplement income by arranging music and/or copying parts for radio, television, stage shows, films, recording companies and advertising agencies. May engage in other musical activities

such as conducting, playing, singing and teaching music. May write words to accompany music or music to accompany words. May specialise in writing words and music of popular songs and be designated accordingly,  
Songwriter

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR PSP or FP: GE12y PSP3-4y(D) / (Dip) HC: ASI	IP: IP: RQ: Q1 U2 V2 A2
<i>Materials</i>	
SM: D2 I1 T2	EQ: PV KV
<i>Functions</i>	
MA: I1 A2 P2 L2 PA: PV S1 E1	SA: A1
<i>Context</i>	
EC: L1 SS: V	TC: I1 T2 SC: V
LMS: 100 (50%SE)	ASIC: 913

3024-B MUSIC ARRANGER

Transcribes musical compositions or melodic lines to adapt and modify them, frequently to create particular style for orchestra, band, choral group or individual.

Familiarises self with composition to be adapted, using musical instrument. Imagines effects of various combinations of instruments, voices, harmonic structures, rhythms, tempos and music dynamics. Selects instruments or voices to be employed to obtain desired style and effect using knowledge of their range, characteristics, limitations and key, as well as talents of individual performers. Annotates original composition according to selection or writes arrangement on scored music papers.

May work for television or radio company, or for a music publisher.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR PSP or FP: GE12y PSP3-4y(D) / (Dip) HC: ASI	IP: IP: RQ: Q1 U2 A1
<i>Materials</i>	
SM: I1 T2	EQ: K2
<i>Functions</i>	
MA: I1 A1 P2 R2 L2 PA: P1 E1	SA: A1 S2
<i>Context</i>	
EC: L1 SS: V	TC: A1 I1 T2 SC: V
LMS: 100 (0 %SE)	ASIC: 913

3024-C MUSIC COPYIST

Copies and compiles parts from musical score for individual performers within musical group.

Studies musical score to determine treatment. Transcribes parts from score onto staff paper for each instrument or voice within musical group, utilising knowledge of musical notation and experience.

May transpose score to different key prior to copying individual musical parts. May work for television or radio company, or for a music publisher.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR PSP or FP: GE12y PSP3-4y(D) / (Dip) HC: ASI	IP: IP: RQ: Q1 U2 A1
<i>Materials</i>	
SM: D1 P2 T2	EQ:
<i>Functions</i>	
MA: A2 P2 D3 R3 L2 PA: S1 E1	SA: S1
<i>Context</i>	
EC: L1 SS: V	TC: A1 SC: V
LMS: 200 (0 %SE)	ASIC: 913

3024-D ORCHESTRATOR

Provides orchestration (full score and parts) for compositions left at piano score or melody line stage by their composers.

Transposes from one instrument or voice to another to accommodate particular instrumentation or make-up of group using knowledge of range, characteristics, limitations and key of instrument or voice. Improves dynamics, tempo and harmonic effects using knowledge of music theory, harmony, form, shading and notation.

May play musical instrument to plan harmony and chords. May arrange music. May work for television or radio company, or for a music publisher.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR PSP or FP: GE12y PSP3-4y(D) / (Dip) HC: ASI	IP: IP: RQ: Q1 U2 A1
<i>Materials</i>	
SM: D1 I2	EQ: PV KV
<i>Functions</i>	
MA: A2 P2 D2 R3 L2 PA: PV E1	SA: S1
<i>Context</i>	
EC: L1 SS: V	TC: A1 SC: V
LMS: 200 (0 %SE)	ASIC: 913

3025 DANCERS

This unit group covers occupations concerned with creating, performing and teaching various forms of dance.

**Entry Requirements** demonstrated dancing ability rather than formal entry requirements although diploma/associate diploma courses are available; however ballet dancers and teachers of dance usually

require a diploma in a relevant area of dance in order to teach in a dancing school. Persons entering occupations in this group will normally have undergone considerable dancing training during childhood.

**Activities include** performing dances as a soloist, with a partner or as a member of a dancing group; and teaching dance.

**3025-A DANCER**

Performs dances as soloist, with partner, or as member of group to entertain audiences.

Performs classical, modern or acrobatic dances for audience entertainment, co-ordinating body movements and facial expression usually with musical accompaniment, endeavouring to interpret the dance as rehearsed. Executes regular dance exercises to maintain required physical condition of body and limbs and control of movements. Rehearses dances under direction and instruction, or develops own interpretation. Attends wardrobe fittings to ensure proper costuming.

May sing and provide other forms of entertainment. May compose own dances. May specialise in particular style or type of dancing and be designated accordingly, e.g.

Chorus Dancer                      Tap Dancer  
Ballet Dancer; Ballerina; Ballet Artist

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP2-3y(Dip) / (Adip)	IP:
or FP: GE NFR	IP:
HC: AES	RQ: Q1 U2 D1
<i>Materials</i>	
SM: D2 I1 P2	EQ:
<i>Functions</i>	
MA: P2 LV	
PA: C1 B2 E1	SA: L1 P1
<i>Context</i>	
EC: T2 M2 L1	TC: A2 I1
SS: 6	SC: 10 (vy)
LMS: 1000 (0 %SE)	ASIC: 913

**3025-B TEACHER, DANCE**

Instructs pupils in ballet, ballroom, jazz or other forms of dance.

Determines student's interests, natural capabilities and potential for training through interview and observation, and plans suitable program of instruction; explains and demonstrates techniques and methods of regulating movements of body and feet, to musical or rhythmic accompaniment; trains pupils in execution of dance steps and routines and develops skills of musical interpretation and performance artistry.

May instruct other teachers of dance in methods of instructing pupils and in theories of learning, methods of teaching and the development of dance programs. May specialise in teaching one style of dance and be designated accordingly, e.g.

Teacher, Ballroom Dancing      Teacher, Character Dancing  
Teacher, Classical Ballet      Teacher, Creative Dancing  
Teacher, Folk Dancing      Teacher, Historial Dancing  
Teacher, Modern Ballet      Teacher, Tap Dancing  
Teacher, Theatrical Dancing  
Teacher, National/Ethnic Dancing

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP2-3y(Dip) / (Adip)	IP:
HC: SAE	RQ: Q1 U2
<i>Materials</i>	
SM: D2 I2 P1	EQ:
<i>Functions</i>	
MA: A2 P2 D2 R2 L1	
PA: C1 EV	SA: L1 P1
<i>Context</i>	
EC: L1	TC: A2 I1
SS: V	SC: V
LMS: 250 (0 %SE)	ASIC: 913

**3026 MODELS**

This unit group covers occupations concerned with posing as a subject for photographs or artwork, and/or modelling a variety of merchandise, especially clothing.

**Entry Requirements** suitable physical appearance rather than formal entry requirements, however short courses in modelling are available.

**Activities include** discussing required poses with artist or photographer; applying make-up to face and styling hair; and displaying or modelling items of merchandise.

**3026-A MODEL  
Mannequin**

Poses as a subject for photographs or artwork and/or models a variety of merchandise, especially clothing.

Discusses required poses with artist or photographer, and poses as directed to express mood or represented activity of artwork, and/or displays garments, cosmetics, jewellery on person or models other items by holding or by reference to

sample. Applies special make-up to face, and styles hair to enhance appearance, considering such factors as colour, camera techniques and own facial features.

May work before television, motion picture or still cameras. May specialise in modelling for fashion shows; stands, turns and walks to display garments, hairstyle or cosmetics. May model items before designers, manufacturers or buyers. May advise viewers regarding details of article. May specialise in modelling one part of body such as hands or feet. May work for and through an agency, for a wholesale, retail or costume fashion house or on a freelance basis. May act as a fashion consultant or train other persons in modelling techniques. May teach modelling and be designated accordingly,

Instructor/Instructress, Charm Course

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE10y PSP10-15w(B) or FP: GE NFR HC: ASE	IP: E0-2y IP: T0-2y RQ: Q1 U2 D1 V1
<i>Materials</i>	
SM: 12 P1 T2	EQ:
<i>Functions</i>	
MA: P2 D3 R3 L2 PA: C1 S2 W2 B1 E2	SA: S2 L2 P2
<i>Context</i>	
EC: T2 M2 L4 C05,13 SS: V	TC: A2 S2 I1 T2 SC: V
LMS: 500 (0 %SE)	ASIC: 6382

3027 ANNOUNCERS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with introducing various types of programs and celebrities, reading news bulletins and commenting on sporting events and musical recordings.

**Entry Requirements** no formal entry requirements, however experience in a relevant field is usually a prerequisite for entry into radio and television work.

**Activities include** reading news bulletins and commenting on sports news, events and information; acting as master/mistress of ceremonies; interviewing entertainers, speakers or celebrities; introducing various types of programs and commenting on musical recordings presented in music programs.

3027-A ANNOUNCER

Introduces various types of programs, interviews guests, acts as master/mistress of ceremonies, reads news bulletins and makes other announcements for radio and television broadcasting by performing any combination of the following duties.

Maintains coherence and continuity in a program initially by introducing the program to the viewer or listener, verbally linking the program segments throughout the transmission, and finalising the program with a verbal closing. Establishes identity of program by continuous involvement and projection of personality throughout transmission. Reads prepared news bulletins and makes special announcements. Observes, evaluates and broadcasts weather, traffic and related information. Conducts interviews with persons of interest and acts as master/mistress of ceremonies for certain programs.

May read advertisements at specified times on sponsored programs. May write own script and/or news copy. May maintain program log.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE11-12y HC: EAR	IP: E3-5y RQ: Q1 U2 A2
<i>Materials</i>	
SM: D1 P2	EQ:
<i>Functions</i>	
MA: A2 P2 D3 R3 L2 PA: P2 S1 E1	SA: S1 I2
<i>Context</i>	
EC: L1 SS: 7	TC: A1 I1 T2 SC: 1 (vy)
LMS: 500 (0 %SE)	ASIC: 638,913

3027-B COMPERE

Introduces entertainers, speakers or celebrities to audience and generally conducts proceedings of show or program.

Addresses audience to open show or program. Introduces entertainers, speakers or celebrities, interspersing introductions with humorous stories and biographical sketches, using written notes and microphone. Comments on acts or events .

May arrange for particular tunes to be played on request. May announce arrival of celebrities. May tell jokes, sing, dance, play musical instrument or otherwise entertain audience between act or events.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE10y HC: AES	IP: E5-8y RQ: Q1 U2 D2 A1
<i>Materials</i>	
SM: D2 I2 P1	EQ: K2
<i>Functions</i>	
MA: P1 D2 R3 M3 L1 PA: S2 W2 E1	SA: L1 I1 P2
<i>Context</i>	
EC: T2 M2 L4 C13 SS: V	TC: A2 I1 T1 SC: V
LMS: 200 (0 %SE)	ASIC: 638,913

3027-C DISC JOCKEY

Announces program of musical recordings, commenting on the music and other matters of interest to entertain and inform radio audience, broadcasting from studio or on location.

Maintains lists, by category, of musical recording ratings provided by popularity surveys. Selects program of recordings having appeal for specific audience. Announces program, commenting on music and other matters of audience interest

such as weather, time checks, traffic conditions and community service announcements. Operates sound reproducing equipment, or cues technician to perform functions, while integrating program chatter and announcements, either spontaneously or from script, with music. Interviews guest recording artists on program to popularise and promote recordings.

May play requests or dedications. May select and play recorded music for functions such as school, club and wedding dances, and act as a master/mistress of ceremonies. May perform other announcing duties. May read advertising copy at specified times during broadcast.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-12y	IP:
HC: EAR	RQ: Q1 U2 A2
<i>Materials</i>	
SM: D1 P2 T2	EQ: S2
<i>Functions</i>	
MA: A2 P2 D3 R3 L2	
PA: U1 E1	SA: S1 I2
<i>Context</i>	
EC: L1	TC: A1 I1
SS: 7	SC: 10 (vy)
LMS: 200 (0 %SE)	ASIC: 913

3027-D                      SPORTS COMMENTATOR

Broadcasts sports news, events and information over radio and television.

Appraises sports news and information available through sources such as press conferences and interviews. Travels to scene of sports event and collects all available information concerning assignment through observation, interview and investigation. Writes script on basis of timeliness and likely audience interest. Reads script on television or radio sportscast. Broadcasts running commentary or description of sports event, inserting biographical and statistical data, to inform and entertain audience. Interviews sports or public personalities at sports events or in studio for live or taped broadcast.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE11-12y	IP: E5-10y
HC: EA	RQ: Q2 U2 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ:
<i>Functions</i>	
MA: A2 P2 D3 R3 L2	
PA: E1	SA: S1
<i>Context</i>	
EC: M1 L4	TC: A1 I2 T2
SS: 7	SC: 10 (vy)
LMS: 100 (0 %SE)	ASIC: 913

3028    PERFORMING AND AUDIO-VISUAL ARTS SUPPORT OCCUPATIONS

This unit group covers occupations mainly concerned with the preparation of sets and acting personnel for dramatic productions.

**Entry Requirements** a trade qualification, para-professional and/or basic vocational certificate in an appropriate area in some cases, and/or up to 10 years' experience. Diploma courses in film and television are also available.

**Activities include** applying make-up to performers; supervising and co-ordinating the costuming of acting personnel and the use of properties for dramatic productions; determining the lighting of interior and/or exterior scenes; designing and fabricating devices for the purpose of creating special effects; painting scenery for motion picture, stage and television sets; and manufacturing and/or acquiring scenery for dramatic productions.

3028-A                      LIGHTING SUPERVISOR  
                                 Lighting Director

Is responsible creatively and technically for the lighting of interior and/or exterior scenes, noting the requirements of dramatic interpretation.

Studies continuity, script and work drawings of stage and studio sets showing light details and special light effects desired. Originates designs for artistic lighting of sets based on extensive knowledge of stage lighting and stage presentation, or television lighting and television presentation. Confers with production personnel and suggests changes in lighting plans. Supervises personnel engaged in setting up and arranging lighting equipment for use on stage, television or motion picture sets.

May direct maintenance and repair of lighting equipment.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: E5y
HC: ASR	RQ: S1 Q2 U2 V1
<i>Materials</i>	
SM: D2 I2 P2 T1	EQ:
<i>Functions</i>	
MA: A2 P2 D3 R3 M3 L2	
PA: E2	SA: S2 L2 B2 R3-4
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 8	SC: 8 (vy)
LMS: 50 (0 %SE)	ASIC: 913

3028-B                      MAKE-UP ARTIST

Studies requirements of stage, television or motion picture productions such as character, period, setting and situation and applies make-up to performers to alter their appearance in accord with their roles.

Examines sketches, photographs and plaster models in period files to obtain an image of character to be depicted. Determines make-up to be used and ensures artistic unity of make-up with settings and costumes in consultation with production personnel. Designs prostheses of rubber or plastic and requisitions cosmetics and make-up materials such as wigs, beards and powder. Applies prostheses, cosmetics and make-up to change physical characteristics of performer such as facial features, skin texture, body contours and dimensions, and to produce effect appropriate to character and situation.

May perform hair-styling on natural hair, wigs and hair pieces, or advise hairdressers as to the style of hairdressing required for the character part.

Related Occupations

Minor Group 426 : Hairdressers, Beauticians and Related Occupations

Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4-5y(T) / (B) or FP: GE10-11y PSP1-2y(PPC) HC: SAE	IP: T1y E2-3y IP: E0-3y RQ: P2 Q2 U2 V2
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ: S1
<b>Functions</b>	
MA: I2 A2 P2 D2 R3 M3 L2 PA: P1 U2 S2 W2 E1	SA: S2 B2 R4
<b>Context</b>	
EC: L1 SS: 3	TC: A2 I1 T2 SC: 3 (vy)
LMS: 50 (0 %SE)	ASIC: 913

3028-C PROPERTY SUPERVISOR (PERFORMING ARTS)

Supervises and co-ordinates the use of props for dramatic productions.

Reads script and confers with production and directing personnel to determine prop requirements. Studies period styles to represent correctly time of plot, consulting period files and utilising knowledge of historical, geographical and artistic factors. Requisitions props required from studio prop room. Arranges for construction, purchase and rental of props not available from existing inventory and in accordance with properties budget. Arranges for placing of props on stage and directs clearing of props at conclusion of each scene. Ensures that props are in good repair. Arranges transportation of props to outside location when required.

May arrange for special wardrobe items or for setting-up of special effects such as smoke or fire. May maintain picture identification file of props in inventory.

Job Content Factors

<b>Workers</b>	
FP: GE11-12y HC: AIS	IP: E5y RQ: V2 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ:
<b>Functions</b>	
MA: A2 P2 D3 R3 L2 PA: E3	SA: L1 B2 R4-3
<b>Context</b>	
EC: M1 L1 SS: 7	TC: A1 I2 T2 SC: 10 (vy)
LMS: 50 (0 %SE)	ASIC: 913

3028-D SPECIAL EFFECTS PERSON

Designs, fabricates and uses devices to simulate special sound and visual effects for broadcasting, motion picture and stage productions.

Contrives and uses a variety of mechanical, chemical and electrical devices to animate incidents. Creates the illusion of phenomena such as snow, rain, smoke, waves, thunder and

impact of projectiles, using chemicals and explosives. Draws plans for and arranges provision of contrivances such as towers, conveyors and wiring layouts for the setup of special effects. Obtains permits for use of special effects devices and ensures compliance with safety regulations.

May specialise in producing special sound effects and be designated accordingly,  
Sound Effects Person

Job Content Factors

<b>Workers</b>	
FP: GE10-11y HC: AIS	IP: E1-3y RQ: Q2 U2 V2 A2
<b>Materials</b>	
SM: D2 I2 P2 T1	EQ: P2 S2
<b>Functions</b>	
MA: I2 A2 P2 D2 R3 L2 PA: P1 E2	SA: L1
<b>Context</b>	
EC: M2 L1 C13 SS: 5	TC: A1 I2 T2 SC: 6 (vy)
LMS: 50 (0 %SE)	ASIC: 913

3028-E WARDROBE SUPERVISOR

Supervises and co-ordinates costuming of cast for motion picture, television and stage productions.

Assists producers and designers in selection of costumes for productions by analysing script and research material to determine style of dress for cast according to period and characters to be represented. Establishes and maintains contact with costume and material suppliers. Responsible for ensuring that required garments are hired, bought or made in accordance with rehearsal and production deadlines and within funds allotted, and that they are maintained in good condition throughout production. Supervises and co-ordinates activities of workers to ensure that above objectives are attained.

May assist in dressing performers. May specialise in designing costumes for a specific production and be designated accordingly,

Costume Designer

Related Occupation

Occupation 6612-C : Wardrobe Assistant

Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE NFR HC: ASI	IP: E3-5y IP: E5y RQ: Q1 V1
<b>Materials</b>	
SM: D2 I2 P2 T1	EQ: S1 M2
<b>Functions</b>	
MA: A1 P2 D2 R3 M3 L2 PA: P1 C2 E2	SA: L1 P1 B1 R3-4
<b>Context</b>	
EC: M2 L1 SS: 6	TC: A1 I2 T2 SC: 9 (vy)
LMS: 0 (0 %SE)	ASIC: 913

3028-F PROP MAKER

Constructs props, miniatures, sets and background for motion picture, television and theatrical productions.

Studies task specifications in the form of oral or written instructions, or of stage or set designs and layouts, and determines material requirements. Where necessary, produces detail drawings of prop in consultation with special effects person and other technical crew. Builds rough structure from wood, metal, plastic, fibreglass or other material. Fits appropriate functional apparatus, such as wiring, electronics, levers or cables, and test operates and modifies as necessary.

Finishes structure by such methods as shaping, painting and fitting veneer and accessories. Installs, or supervises the installation of, fixed props on set.

May specialise in constructing scale models to simulate full-size structures such as ships, buildings or spacecraft in cinema or television productions, and be designated accordingly,

Model Maker, Cinema and Television

May specialise in planning and painting scenery for motion picture, stage and television sets and be designated accordingly,

Scenery Artist; Scene Painter

Related Occupation

Occupation 6201-B : Model Maker, Wood

Job Content Factors

Workers	
FP: GE10y PSP4y(T)	IP: E5-10y
or FP: GE NFR	IP: E8-10y
HC: RAE	RQ: Q2 V1

Materials	
SM: D2 I2 P2 T1	EQ: S1 N1 M2 W2
Functions	
MA: I2 A2 P2 D2 R3 M2 L2	
PA: P1 U2 C1 H2 W1 E3	SA: S1 B2 R4
Context	
EC: L1 C09,12	TC: A1 I1 T1
SS: 3	SC: 6 (vy)
LMS: 50 (0 %SE)	
ASIC: 913	

3028-Z PERFORMING AND AUDIO-VISUAL  
ARTS SUPPORT OCCUPATIONS nec

This residual group covers performing and audio-visual arts support occupations not elsewhere classified in Minor Group 302, e.g.

- Continuity Person
- Grip; Studio Hand; Staging Assistant; Stagehand
- Key Grip; Head Stagehand

MINOR GROUP 303  
SPORT OCCUPATIONS

Sport Occupations are classified in the following unit groups.

- 3030 Coaches, Sport Occupations
- 3031 Sport Officials
- 3032 Sport Professionals
- 3039 Other Sport Occupations

3030 COACHES, SPORT OCCUPATIONS

This unit group covers occupations concerned with administering and directing sporting programs; and coaching, recruiting, training and instructing athletes and other participants in competitive sport. **Entry Requirements** demonstrated ability rather than formal entry requirements although courses in sports science are available.

**Activities include** negotiating contracts with players; arranging for their participation in sports events; giving instruction in theoretical and practical aspects of sport to individuals or groups desiring to gain sports skills or to increase physical fitness.

3030-A COACH, SPORT  
Instructor, Sport; Trainer, Sport

Coaches, trains or instructs players by analysing their performances, instructing them in areas of deficiency and developing team co-ordination or individual prowess for sports events.

Observes performance of individual athletes, or players, or teams for improvement. Coaches teams or instructs players by demonstrating techniques of game; sets short and long term goals. Evaluates physical condition of athletes. Prescribes routine and corrective exercises to strengthen muscles and improve physical prowess. Oversees practice of players to ensure adherence to training and other club rules. Plans and directs game strategy, develops play patterns, analyses game progress and gives instructions to players. Conducts after-game analyses of play, evaluates performance and may make changes in strategy.

May teach and demonstrate skills, techniques and use of gymnastic apparatus. May demonstrate and teach body movements and skills and explain safety measures. May

recommend special diets. May render first aid to injured persons. Usually specialises in a particular sport and is designated accordingly, e.g.

- |                           |                          |
|---------------------------|--------------------------|
| Coach, Basketball         | Coach, Football          |
| Coach, Tennis             | Coach/Trainer, Athletics |
| Golf Professional (Coach) | Instructor, Skiing       |

Job Content Factors

<b>Workers</b>	
FP: GE12y PSP2-3y(Dip) / (Adip) or FP: GE9-10y HC: IEA	IP: E5y RQ: P2 Q1 U2 D2 V1
<b>Materials</b>	
SM: D2 I2 P1	EQ: S2
<b>Functions</b>	
MA: I2 A1 P1 D2 R2 M3 L2 PA: C2 W1 E2	SA: S2 L1 I2 P2 B1 R2-4
<b>Context</b>	
EC: T2 L3 SS: V	TC: A2 S1 I1 SC: V
LMS: NA (50%SE)	ASIC: 9144

3031 SPORT OFFICIALS

This unit group covers occupations concerned with observing and enforcing rules and regulations governing sporting events and athletic games and competitions.

**Entry Requirements** demonstrated ability and a sound knowledge of the rules and regulations governing the particular sporting event.

**Activities include** co-ordinating, directing and inspecting horse and dog racing activities; negotiating with other race officials to interpret and enforce racing rules and regulations; observing the running of horse and dog races to detect infraction of racing rules; inspecting horses and dogs; starting harness races; assigning handicap allowances and gradings; weighing jockeys; checking equipment; and officiating at sporting events, such as football, cricket or other professional sporting games, boxing or wrestling matches, to uphold rules and regulations of the sport and to assess penalties.

**3031-A STEWARD, RACE**  
**Racecourse Official, Dog; Racecourse Official, Horse; Stipendiary Steward, Racing**

Co-ordinates and directs horse or dog racing activities, and negotiates with other officials to interpret and enforce racing rules and regulations as member of board of stewards.

Supervises all employees at racing events. Approves or disapproves acceptance of horses or dogs or equipment changes on horses by owners and trainers. Determines violation of racing rules and assesses penalties. Orders removal of unfit horses or dogs from race. Observes entry of horses and dogs into starting gate/boxes to ensure that starting arrangements are equitable.

May be engaged in a particular activity and be designated accordingly, e.g.

- Brand/Identity Steward
- Handicapper, Harness/Horse Racing
- Judge, Harness/Horse Racing
- Scales Steward
- Starter, Harness/Horse Racing
- Steward-at-Start

Job Content Factors	
Workers	
FP: GE NFR	IP: E5-10y
HC: ICR	RQ: P2 U2 D2 V1
Materials	
SM: D1 P2	EQ: P2
Functions	
MA: I2 A1 P2 D2 R2 M3 L2	
PA: S2 W2 E1	SA: S2 L2 I1 M2 R3-4

Context	
EC: T2 L4	TC: S2 I1 T1
SS: V	SC: V
LMS: NA (0 %SE)	
ASIC: 9144	

**3031-B REFEREE**  
**Umpire**

Officiates at sporting events, such as football or cricket games, boxing or wrestling matches, to maintain standard of play and to assess penalties.

Observes actions of participants to detect infractions of rules. Makes final decisions on disputable matters according to established regulations. Assesses penalties to player or team for infraction of rules. Starts and stops games and events as required; acts to ensure the safety of the players, makes all final decisions for the control of the game.

May be concerned only with determining validity of goals, or out-of-bound plays, and be designated accordingly, e.g.

- Goal Referee/Umpire
- Linesman/woman (Sport)
- Boundary Umpire

Job Content Factors	
Workers	
FP: GE NFR	IP: E5y
HC: E1A	RQ: S2 P1 Q2 U2 D1 V1 A2
Materials	
SM: P1	EQ: N1
Functions	
MA: A2 D2 R3 L2	
PA: C2 W1	SA: S2 L2 I2 B1 R3-4
Context	
EC: T2 L4	TC: S1 I1
SS: V	SC: V
LMS: NA (0 %SE)	
ASIC: 9144	

**3032 SPORT PROFESSIONALS**

This unit group covers occupations concerned with active participation for monetary gain, in sports and games as competitor or player.

**Entry Requirements** demonstrated ability rather than formal requirements, except for jockeys who are required to complete a 5-year apprenticeship under the control of the relevant State racing authority.

**Activities include** participating in competitive sporting events; riding or driving horses in competitive races at racetracks; riding motor cycles or driving motor cars in competition races.

**3032-A JOCKEY**

Rides horses in competitive races at racetracks and at exercise.

Receives racing instructions from trainer before race. Rides horse complying with racing regulations. Judges his/her own horse's ability and other horses' ability, in order to determine the best tactics to use to win the race. Discusses performance of horse with trainer after the race or exercise gallops; advises trainer on pertinent factors affecting the horse such as the condition of the animal or occurrences during the race.

May specialise in jumping events. May assist with training of horses or undertake stable duties. May be required to maintain certain weight limits.

**Job Content Factors****Workers**

FP: GE NFR PSP4-5y(T)

IP:

HC: RES

RQ: S1 P1 Q1 D1

**Materials**

SM: P1 T2

EQ: N1

**Functions**

MA: A2 P1 D2 R3 L3

PA: C1 W1 B1 E3

SA: S1 I2

**Context**

EC: T2 M2 L2 C13

TC: A1 I1 T1

SS: 2

SC: I2 (vy)

LMS: NA (99%SE)

ASIC: 9144

regulations and pit signals. Judges capacity of his/her own car/motor cycle/horse and other cars/motor cycles/horses to determine the best tactics to use to win the event. Discusses performance of car/motor cycle/horse with manager after the race.

May work individually or as a member of a team under the direction of a team manager. May tune or repair motor vehicle. May drive in practice sessions. May assist in training of horses.

Usually specialises in a particular sport and is designated accordingly, e.g.

Driver, Harness Race; Reinsman/woman

Driver, Racing Car

Motor Cyclist, Speedway

**Job Content Factors****Workers**

FP: GE NFR

IP:

HC: ARS

RQ: P1 Q1 U2 D1 V1 A2

**Materials**

SM: P2 T1

EQ: S1

**Functions**

MA: A2 P1 D3 R3 M3 L3

PA: P1 C1 W1 B1 E4

SA: S1 L2

**Context**

EC: M1 L4 C09,13

TC: S1 I1 T2

SS: V

SC: V

LMS: NA (30%SE)

ASIC: 9144

**3032-B DRIVER/CYCLIST (SPORT)**

Competes in trotting and pacing or motor sporting events including track, rally and harness racing events, for monetary gain.

Gains knowledge of course or track by driving car, riding motor cycle or driving horse and gig. Receives instructions from manager before commencement of race. Drives car, motor cycle or horse and gig, complying with racing

**3032-Z SPORT PROFESSIONALS nec**

This residual group covers sport professionals not elsewhere classified in Unit Group 3032, e.g.

Professional Athlete

Professional Cricket Player

Professional Football Player

Professional Golfer

Professional Tennis Player

Professional Wrestler

**3039 OTHER SPORT OCCUPATIONS**

This residual unit group covers occupations in sport concerned with providing assistance to sporting participants and club management and assisting in the operation of sporting facilities.

**Activities include** controlling property used by participants; overseeing the use of sporting facilities; and assisting persons to participate.

**Related Occupations**

Minor Group 4292

: Guide Occupations

Occupation 4293-C

: Attendant, Sporting

Occupation 2119-F

: Recreation Officer

**3039-A MANAGER, SPORT CENTRE**  
**Administrator, Sport Centre**

Plans, organises, directs and co-ordinates all activities and resources necessary for the running of a sport centre and for the provision of facilities for particular sporting activities for the public or a section of the public.

Determines staffing, material, financial and other needs in the short, medium and long term and arranges for their acquisition. Recruits staff such as sports and games coaches and attendants. Ensures that all facilities are kept in the best possible condition. Promotes publicity in relation to facilities

available. Advises on the extension, modification or curtailment of activities and facilities. Checks and keeps custody of all cash receipts.

May prepare estimates, financial statements and/or reports of operations. May plan and organise catering facilities and undertake regular stock check of items sold. May promote social activities for patrons. May, in small establishments, undertake coaching duties. May specialise in a particular sport or group of sports and be designated accordingly, e.g.

Manager, Bowling Club

Manager, Country Club

Manager, Golf Club

Manager, Gymnasium

Manager, Health Club/Spa      Manager, Ski Resort  
 Manager, Squash Courts      Manager, Swimming Pool  
 Manager, Tennis Club

**Job Content Factors**

<b>Workers</b>	
FP: GE 12y PSP 2y(ADip)	IP: E3y
or FP: NFR	IP: E5y
HC: ESC	RQ: Q2
<b>Materials</b>	
SM: I2 P1	EQ:
<b>Functions</b>	
MA: I2 A2 P1 D1 R2 M2 L2	
PA: S1 E1	SA: S2 L1 I2 P1 B1 R3-4
<b>Context</b>	
EC: L1	TC: A1 I1 T2
SS: 7	SC: I0-I1 (5y)
LMS: NA (0 %SE)	ASIC: 9144

**3039-B BOOKMAKER  
 On Course Bookmaker**

Determines and offers odds and accepts bets on the result of racing events and supervises the work of bookmaker's clerk.

Studies and acquaints self with form of horse or greyhound by consulting form guides, viewing recorded film of previous races and attending track work-outs. Liaises with interstate contacts regarding form of animals which have previously raced interstate. Attends turf, pacing or greyhound races and provides betting service to punters. Determines odds according to form of participant in event, barrier draw, handicap and condition of track. Offers and varies odds on each participant in order to maximise likely profit irrespective of result of race. Lays-off (passes bets on to other bookmakers or course tote) when bets exceed what is considered to be a safe limit. Writes ticket for client detailing subject of bet and payout in the event of a win. Supervises clerk entering details in transaction ledger.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: E2-5y
HC: EIC	RQ: S1 Q1 U2 D2 V2 A2
<b>Materials</b>	
SM: D2 P1 T2	EQ: N1
<b>Functions</b>	
MA: I2 A1 P2 D1 R2 M2 L3	
PA: S2 W1 E1	SA: L1 I1 P2 B1 R3-4

**Context**

EC: T2 M1 L3 C13	TC: I1 T1
SS: V	SC: V
LMS: NA (0 %SE)	ASIC: 9143

**3039-C BOOKMAKER'S CLERK**

Assists on course bookmaker to provide betting service for punters at race meetings by performing one or more of the following duties.

Accepts bets from clients. Takes money and places in bag. Reads bookmaker's board and calls out odds and details of bet for bookmaker to write ticket. Or stands with bookmaker and records details of bet into transaction ledger. Monitors amounts of money being placed on each race entrant and advises bookmaker accordingly if required. After closing of bets for a race, hands copy of betting sheet for that race to clerk responsible for paying out winning bets, or pays out cash on presentation of winning betting ticket. Checks details and number on ticket with those listed on copy of betting sheet to ensure that they correspond. Crosses off entry on betting sheet and hands to client amount of money written on ticket by bookmaker.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T2m
HC: RCI	RQ: S1 Q2
<b>Materials</b>	
SM: D1 P2	EQ: S2 K2
<b>Functions</b>	
MA: D3 R4 M2 L3	
PA: P2 S2 W2 E2	SA: S2 L1 I2
<b>Context</b>	
EC: M2 L4 C13	TC: I1 R2 T1
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 9143

**3039-Z SPORT OCCUPATIONS nec**

This residual group covers occupations, not elsewhere classified in Minor Group 303,e.g.

Caddie  
 Physical Fitness Adviser, Sport  
 Property Steward



## **SUPER GROUP 4**

### **Clerical, Sales and Service Occupations**

Clerical, Sales and Service Occupations are classified in the following major groups.

- 40 Clerical Occupations
- 41 Sales Occupations
- 42 Service Occupations



## **MAJOR GROUP 40**

### **CLERICAL OCCUPATIONS**

Clerical Occupations are classified in the following minor groups.

- 400 Stenographic and Typing Occupations
- 401 Bookkeeping, Banking and Insurance  
Account Recording Occupations
- 402 Business Machine Operating Occupations
- 403 Scheduling and Dispatching Occupations
- 404 Library/File Clerks
- 405 Reception/Mail Clerks
- 409 Other Clerical Occupations

# 40 CLERICAL OCCUPATIONS

## 400 STENOGRAPHIC AND TYPING OCCUPATIONS

### 4000 SUPERVISORS, STENOGRAPHIC AND TYPING OCCUPATIONS

4000-A Supervisor, Stenographers  
4000-B Supervisor, Typists

### 4001 OFFICE SECRETARIES AND STENOGRAPHERS

4001-A Office Secretary  
4001-B Court Reporter  
4001-C Stenographer

### 4002 TYPISTS AND TYPIST-CLERKS

4002-A Dictatypist  
4002-B Typist-Clerk  
4002-C Typist

## 401 BOOKKEEPING, BANKING AND INSURANCE ACCOUNT RECORDING OCCUPATIONS

### 4010 SUPERVISORS, BOOKKEEPING, BANKING AND INSURANCE ACCOUNT RECORDING OCCUPATIONS

4010-A Supervisor, Bookkeepers and Accounting Clerks  
4010-B Supervisor, Bank Tellers and Clerks  
4010-C Supervisor, Insurance Clerks  
4010-D Supervisor, Statistical Clerks  
4010-E Paymaster/mistress  
4010-Z Supervisors, Bookkeeping, Banking and Insurance Account Recording Occupations nec

### 4011 BOOKKEEPERS AND ACCOUNTING CLERKS

4011-A Bookkeeper  
4011-B Cost Clerk  
4011-C Audit Clerk  
4011-D Accounts Clerk  
4011-E Cashier, Office  
4011-F Payroll Clerk  
4011-Z Bookkeepers and Accounting Clerks nec

### 4012 BANK TELLERS AND CLERKS

4012-A Bank Teller  
4012-B Bank Officer  
4012-Z Bank Tellers and Clerks nec

### 4013 INSURANCE CLERKS

4013-A Clerk, General Insurance  
4013-B Clerk, Policy Holder Services  
4013-Z Insurance Clerks nec

### 4014 STATISTICAL CLERKS

4014-A Actuarial Clerk  
4014-B Statistical Clerk

### 4019 OTHER BOOKKEEPING, BANKING AND INSURANCE ACCOUNT RECORDING AND RELATED OCCUPATIONS

4019-A Scrip Clerk, Stockbroking  
4019-B Invoice Clerk  
4019-Z Bookkeeping, Banking and Insurance Account Recording and Related Occupations nec

## 402 BUSINESS MACHINE OPERATING OCCUPATIONS

### 4020 SUPERVISORS, BUSINESS MACHINE OPERATORS

4020-A Supervisor, Electronic Data Processing Equipment Operators  
4020-B Supervisor, Office Business Machine Operators

### 4021 OFFICE BUSINESS MACHINE OPERATORS

4021-A Accounting Machinist  
4021-B Calculator Operator  
4021-Z Office Business Machine Operators nec

### 4022 ELECTRONIC DATA PROCESSING EQUIPMENT OPERATORS

4022-A Computer Operator  
4022-B Computer Peripheral Equipment Operator  
4022-C Remote Computer Terminal Operator  
4022-D Key Punch Operator  
4022-E Word Processor Operator  
4022-F Telex Operator  
4022-Z Electronic Data Processing Equipment Operators nec

## 403 SCHEDULING AND DISPATCHING OCCUPATIONS

### 4030 SUPERVISORS, SCHEDULING AND DISPATCHING OCCUPATIONS

4030-A Supervisor, Production and Scheduling Clerks  
4030-B Supervisor, Shipping, Transportation and Receiving Clerks  
4030-C Supervisor, Stock Clerks  
4030-Z Supervisors, Scheduling and Dispatching Occupations nec

### 4031 PRODUCTION/SCHEDULING CLERKS

4031-A Production/Scheduling Clerk

### 4032 SHIPPING, TRANSPORTATION AND RECEIVING CLERKS

4032-A Import Freight Clerk  
4032-B Export Freight Clerk  
4032-C Shipping Clerk  
4032-D Receiving Clerk  
4032-E Dispatcher, Radio  
4032-F Load Controller, Air Transport  
4032-Z Shipping, Transportation and Receiving Clerks nec

### 4033 STOCK CLERKS AND RELATED OCCUPATIONS

4033-A Stores Clerk  
4033-B Purchasing Officer  
4033-C Warranty Clerk  
4033-D Tally Clerk  
4033-Z Stock Clerks and Related Occupations nec

### 4034 WEIGHERS

4034-A Licensed Weigher  
4034-B Weigher, Production  
4034-Z Weighers nec

## 404 LIBRARY/FILE CLERKS

### 4040 SUPERVISORS, LIBRARY/FILE CLERKS

4040-A Supervisor, Library and File Clerks  
4040-B Supervisor, Correspondence Clerks and Related Occupations

### 4041 LIBRARY AND FILE CLERKS

4041-A Library Attendant  
4041-B File and Classification Clerk  
4041-C Tape Librarian  
4041-D File Clerk

### 4042 CORRESPONDENCE CLERKS

4042-A Circulation Representative  
4042-B Meter Records Clerk  
4042-C Correspondence Clerk  
4042-D Sales Clerk  
4042-E Sorter (Clerical)  
4042-Z Correspondence Clerks nec

## 405 RECEPTION/MAIL CLERKS

### 4050 SUPERVISORS, RECEPTION/MAIL CLERKS

4050-A Telephonist Supervisor  
4050-B Supervisor, Postal

### 4051 RECEPTIONIST CLERKS

4051-A Receptionist  
4051-B Information Clerk  
4051-C Hospital Admitting Clerk

### 4052 POSTAL SERVICE OCCUPATIONS

4052-A Postal Clerk  
4052-B Mail Officer  
4052-C Postal Officer  
4052-D Postman/woman

### 4053 TELEPHONISTS AND PHONOGRAM OPERATORS

4053-A Telephonist, Telecommunications  
4053-B Telephonist, Switchboard  
4053-C Telephone Answering-Service Operator  
4053-D Phonogram Operator

### 4054 MESSENGERS

4054-A Messenger

## 409 OTHER CLERICAL OCCUPATIONS

### 4090 SUPERVISORS, OTHER CLERICAL OCCUPATIONS

4090-Z Supervisors, Other Clerical Occupations nec

### 4091 PERSONNEL CLERKS

4091-A Personnel Records Clerk

### 4092 CLERICAL ASSISTANTS (OTHER)

4092-Z Clerical Assistants (Other) nec

### 4099 OTHER CLERICAL AND RELATED OCCUPATIONS

4099-A General Clerk  
4099-B Proof-Reader  
4099-C Classified Advertising Clerk  
4099-D Title Searcher  
4099-E Meter Reader  
4099-F Process Server  
4099-G Law Clerk  
4099-Z Clerical and Related Occupations nec

MINOR GROUP 400

STENOGRAPHIC AND TYPING OCCUPATIONS

Stenographic and Typing Occupations are classified in the following unit groups.

- 4000 Supervisors, Stenographic and Typing Occupations
- 4001 Office Secretaries and Stenographers
- 4002 Typists and Typist-Clerks

4000 SUPERVISORS, STENOGRAPHIC AND TYPING OCCUPATIONS

This unit group covers occupations concerned with supervising and co-ordinating activities of stenographers, typists and word processors.

**Entry Requirements** Year 10-12 and 5-10 years' related work experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN; overseeing workflow; scrutinising completed work and maintaining accepted standards; recommending staff levels and advising on recruitment and discharge of staff; training staff and liaising with management.

4000-A SUPERVISOR, STENOGRAPHERS

Supervises and co-ordinates activities of workers engaged in recording, transcribing and typing dictated or prepared material.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Assigns stenographers to executives, department heads and other officials, to take dictation and transcribe correspondence and memoranda.

May interview and test job applicants for stenographic and typing jobs and recommend on recruitment.

Job Content Factors

Workers

FP: GE10-11y  
HC: CES

IP: T2m E5-10y  
RQ:

Materials

SM: D2 P1 T2

EQ: M2 K1

Functions

MA: P1 D2 R2 M3 L2  
PA: P1 S1 E1

SA: S2 L2 B1 R3-4

Context

EC: L1  
SS: 7

TC: A1 T2  
SC: 8 (vy)

LMS: NA (0 %SE)

ASIC: Many

4000-B SUPERVISOR, TYPISTS

Supervisor, Word Processers

Supervises and co-ordinates activities of workers engaged in typing dictated or prepared material, and clerical duties.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Assigns typing workload to typists.

May interview and test applicants for typing jobs and recommend on recruitment.

Job Content Factors

Workers

FP: GE10-11y  
HC: CES

IP: T2m E5-10y  
RQ:

Materials

SM: D1 P2 T2

EQ: M2 K1

Functions

MA: P1 D2 R2 M3 L2  
PA: P1 S1 E1

SA: S2 L2 B1 R3-4

Context

EC: L1  
SS: 6

TC: A1 T2  
SC: 7 (vy)

LMS: NA (0 %SE)

ASIC: Many

4001 OFFICE SECRETARIES AND STENOGRAPHERS

This unit group covers occupations concerned with recording information in shorthand, typing and assisting senior staff.

**Entry Requirements** Year 11-12 and up to 5 years' related work experience and/or a para-professional/associate diploma qualification.

**Activities include** shorthand writing; transcribing data by typewriter from shorthand notes or dictating machine; making appointments; answering telephone calls; and performing general office duties.

#### 4001-A OFFICE SECRETARY Girl/Man Friday; Person Friday

Performs administrative and general office duties in support of superior officers by performing any of the following duties.

Takes and transcribes dictation in the form of letters, memoranda and reports using dictation equipment, typewriters or word processors. Obtains information for report preparation. Arranges appointments and travelling arrangements for superiors. Makes minor decisions relating to office procedures. Screens telephone calls. Receives and distributes incoming letters, memoranda and journals. Files correspondence and other records. Composes and types correspondence and prepares replies to incoming correspondence.

May greet visitors, ascertain nature of business and conduct visitors to appropriate persons. May specialise and be designated accordingly, e.g.

Legal Secretary

##### Job Content Factors

###### Workers

FP: GE11-12y PSP	IP: T3-6m E2-5y
or FP: GE11-12y PSP2-3y(PPC)	IP: T2-3m
HC: CSI	RQ: Q2

###### Materials

SM: D1 P2 T2	EQ: M2 K1
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###### Functions

MA: P2 D2 R3 M3 L2	
PA: P1 S1 E1	SA: A2 S2 I2

###### Context

EC: L1	TC: A1 T2
SS: 5	SC: 7 (vy)

LMS: 20000 (0 %SE)

ASIC: Many

#### 4001-B COURT REPORTER

Makes verbatim reports on proceedings by shorthand writing or stenotype machine.

Attends meetings, lectures, courts of law, parliamentary sittings and other proceedings, and makes verbatim records in rapid shorthand or using shorthand-writing machine. Reads portion of transcript during trial or other proceedings on request of judge or other official. Dictates shorthand notes to typist or into dictating machine or passes notes to stenographer for transcription.

May perform typing duties. May attend a specific type of proceeding and be designated accordingly, e.g.

Hansard Reporter

##### Job Content Factors

###### Workers

FP: GE12y PSP1y(Adip)	IP: E2y
HC: CS	RQ:

###### Materials

SM: D1 P2 T2	EQ: K1
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###### Functions

MA: D2 R4 L2	
PA: P1 S1 E1	SA: A2 S2 I2

###### Context

EC: L1	TC: A1 T2
SS: 8	SC: 10 (vy)

#### 4001-C STENOGRAPHER Secretary (Clerical); Steno-Secretary

Undertakes office duties including shorthand, typing, filing and general office duties.

Receives and records dictation in shorthand and transcribes shorthand notes by use of a typewriter or word processor. Proof-reads work for typographical and grammatical errors. Assembles information for preparing routine reports. Performs general clerical duties. Assists in opening, screening and distribution of incoming mail. Maintains a filing system.

May assist in general office duties such as answering the telephone and receiving clients. May specialise in performing duties for one individual and be designated accordingly, e.g.

Private Secretary

##### Job Content Factors

###### Workers

FP: GE11-12y PSP3-24m(PPC)	IP: T2m
or FP: GE11-12y	IP: T3-4m E0-5y
HC: CS	RQ:

###### Materials

SM: D1 P2 T2	EQ: K1
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###### Functions

MA: D2 R4 L2	
PA: P1 S1 E1	SA: S1

###### Context

EC: L1	TC: A1 R2 T2
SS: 4	SC: 7 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 4002 TYPISTS AND TYPIST-CLERKS

This unit group covers occupations concerned with presenting information in typed form by operating office machines for this purpose.

**Entry Requirements** Year 10 and, in some cases, a para-professional certificate and up to 6 months' experience.

**Activities include** operating manual and electric typewriters or word processor; using a dictaphone to obtain information for typing; and combining some clerical work with typing duties.

**Related Occupations**

Minor Group 402	: Business Machine Operating Occupations
Minor Group 901	: Electronic and Communications Equipment Operating Occupations

**4002-A DICTATYPIST  
Audio Typist**

Transcribes letters, reports or other recorded data, using dictation equipment and typewriter.

Positions record or tape on machine spindle and sets needle on record or threads tape through machine. Depresses pedal to rotate record or tape. Turns dial to control volume, tone and speed of voice reproduction. Types message heard through earphones. Reads chart prepared by originator to determine length of message and corrections to be made.

May keep file of records. May specialise and be designated accordingly, e.g.

Transcription Typist

**Job Content Factors**

<b>Workers</b>	
FP: GE10-12y PSP or FP: GE11-12y PSP2y(PPC) HC: CS	IP: T3m E0-6m IP: T1m RQ:
<b>Materials</b>	
SM: D2 P2 T1	EQ: M2 K1
<b>Functions</b>	
MA: D3 R4 L3 PA: P1 S1 E1	SA: A2 S2 L2
<b>Context</b>	
EC: L1 SS: 2	TC: A1 R1 T2 SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: Many

**4002-B TYPIST-CLERK**

Performs general typing and clerical duties as required.

Types letters and reports and follows established procedures. Addresses envelopes. Operates dictation, typewriting and other processing equipment. Types stencils for duplicating. Transcribes information recorded in dictating machine. Files records and reports, posts information to records, sorts and distributes mail, answers telephone and performs other office duties.

May compute amounts of bills and accounts, using adding machine or calculator.

**Job Content Factors**

<b>Workers</b>	
FP: GE10-12y HC: CSE	IP: T1-3m RQ:
<b>Materials</b>	
SM: D1 T2	EQ: M2 K1
<b>Functions</b>	
MA: D2 R4 M3 L3 PA: P1 S2 W2 E1	SA: S2 L2 I2
<b>Context</b>	
EC: L1 SS: 2	TC: A1 R2 SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: Many

**4002-C TYPIST**

Performs general typing duties as directed. Types communications, reports, letters, stencils, or other straight copy material from rough draft. Types statistical tables, production and sales data, and similar material according to standard procedure and instructions. Prepares reports of a standard nature and attends to layout of information.

May specialise in repetitive typing of routine information such as addresses or information and be designated accordingly, e.g.

Copy Typist

**Job Content Factors**

<b>Workers</b>	
FP: GE10-12y HC: C	IP: T1m RQ:
<b>Materials</b>	
SM: D2 T1	EQ: K1
<b>Functions</b>	
MA: D3 R4 L3 PA: P1 S1 E1	SA: A2 S2 L2
<b>Context</b>	
EC: L1 SS: 2	TC: A1 I2 R1 SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: Many

## MINOR GROUP 401

### BOOKKEEPING, BANKING AND INSURANCE ACCOUNT RECORDING OCCUPATIONS

Bookkeeping, Banking and Insurance Account Recording Occupations are classified in the following unit groups.

4010	Supervisors, Bookkeeping, Banking and Insurance Account Recording Occupations
4011	Bookkeepers and Accounting Clerks
4012	Bank Tellers and Clerks
4013	Insurance Clerks
4014	Statistical Clerks
4019	Other Bookkeeping, Banking and Insurance Account Recording and Related Occupations

#### 4010 SUPERVISORS, BOOKKEEPING, BANKING AND INSURANCE ACCOUNT RECORDING OCCUPATIONS

This unit group covers occupations concerned with overseeing bookkeeping, banking and insurance account recording occupations.

**Entry Requirements** Year 10-12 and usually a para-professional certificate and 2-5 years' related work experience.

**Activities include** co-ordinating the activities of workers engaged in classifying and recording information about monetary transactions or activities, interpreting this data into accounts and quantitative records, and paying and receiving money.

#### *Related Occupations*

Unit Group 1030 : Accountants and Auditors

#### 4010-A SUPERVISOR, BOOKKEEPERS AND ACCOUNTING CLERKS Accounting Supervisor

Supervises and co-ordinates activities of workers engaged in computing, classifying, posting and recording data to keep sets of accounts and other financial records.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May be concerned with a particular bookkeeping or accounting activity and be designated accordingly, e.g.

Supervisor, Billing	Supervisor, Budget
Supervisor, Cost	Supervisor, Payroll

#### *Job Content Factors*

##### *Workers*

FP: GE11-12y PSP2y(PPC)	IP: T6m E3y
or FP: GE10-11y	IP: T1y E4y
HC: SCI	RQ: U2

##### *Materials*

SM: D1 P2	EQ: K2
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#### *Functions*

MA: I2 P1 D1 R2 M3 L2

PA: S1 E1

SA: S2 L2 I1 B1 R3-4

#### *Context*

EC: L1

TC: A1 T2

SS: 6

SC: 7 (vy)

LMS: NA (? %SE)

ASIC: Many

#### 4010-B SUPERVISOR, BANK TELLERS AND CLERKS

Supervises and co-ordinates activities of workers engaged in receiving and disbursing money in banks, credit unions and similar institutions.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Records daily balance of cash receipts. Requisitions additional cash as required for daily operations.

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP2y(PPC)	IP: T3m E3y
or FP: GE10-11y	IP: T6m E4y
HC: SCI	RQ:
<b>Materials</b>	
SM: D1 P2	EQ: K2
<b>Functions</b>	
MA: P1 D2 R3 M3 L2	
PA: S1 E1	SA: S2 L2 I1 B1 R3-4
<b>Context</b>	
EC: L1	TC: A1
SS: 6	SC: 8 (vy)
LMS: 10000 (? %SE)	ASIC: 614

**4010-C SUPERVISOR, INSURANCE CLERKS**

Supervises and co-ordinates activities of workers engaged in keeping records of insurance transactions.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP2-3y(PPC)	IP: E5y
HC: CSE	RQ: U2
<b>Materials</b>	
SM: D2 P1	EQ:
<b>Functions</b>	
MA: I2 P1 D2 R2 M3 L2	
PA: S1 E1	SA: S2 L2 I2 B1 R3-4
<b>Context</b>	
EC: L1	TC: A1
SS: 6	SC: 8 (vy)
LMS: 3000 (? %SE)	ASIC: 62

**4010-D SUPERVISOR, STATISTICAL CLERKS**

Supervises and co-ordinates activities of workers engaged in collecting and collating statistical information.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y	IP: T3m E2y
HC: CSI	RQ:

**Materials**

SM: D2 P1	EQ:
<b>Functions</b>	
MA: I2 A2 P1 D2 R2 M2 L2	
PA: S1 E1	SA: S2 L2 B1 R3-4
<b>Context</b>	
EC: L1	TC: A1
SS: 6	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: Many

**4010-E PAYMASTER/MISTRESS  
Pay Clerk**

Ensures that wages, salaries and related records are correctly and accurately prepared.

Prepares and distributes salaries and wages. Maintains pay records and associated time keeping data and statistics. Ensures payments to wages staff are in accordance with arbitrated decisions and consent agreements and maintains award data. Maintains records of all monies paid to staff, annual leave taken and leave loading paid. Assists with superannuation programs and is responsible for end of year group certificate program.

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y	IP: T3-6m E2-3y
HC: CSI	RQ: U1
<b>Materials</b>	
SM: D1 P2 T2	EQ: K2
<b>Functions</b>	
MA: I2 P2 D2 R2 M2 L2	
PA: S1 E2	SA: S1 I2 B2 R4
<b>Context</b>	
EC: L1	TC: A1 R2 T1
SS: 6	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: Many

**4010-Z SUPERVISORS, BOOKKEEPING,  
BANKING AND INSURANCE ACCOUNT  
RECORDING OCCUPATIONS nec**

This residual group covers supervisors of bookkeeping, banking and insurance account recording occupations, not elsewhere classified in Unit Group 4010, e.g.

Supervisor, Scrip Clerks  
Supervisor, Real Estate Clerks

**4011 BOOKKEEPERS AND ACCOUNTING CLERKS**

This unit group covers occupations which are concerned with recording financial information for management.

**Entry Requirements** Year 10-12 and, in some cases, a para-professional certificate and up to 4 years' experience.

**Activities include** complete recording of financial transactions, production costs, verification of recorded transactions, invoice and account processing, wage and salary compilation and attendance records.

**Related Occupations**

Unit Group 1030 : Accountants and Auditors

**4011-A BOOKKEEPER**

Keeps complete records of financial transactions of an establishment or undertaking in books of account.

Makes and checks entries in a set of books of account which generally includes a creditors' and debtors' ledger, sales, purchase and cash journal. Assists in the preparation of

quarterly accounts. Prepares profit and loss statements and assists in the preparation of trial balances for extension and verification by management or auditors.

#### Job Content Factors

##### Workers

FP: GE10-11y PSP  
or FP: GE11-12y PSP2y(PPC)  
HC: CIS  
IP: T1-2y E3y  
IP: E2-4y  
RQ:

##### Materials

SM: D1 P2 T2  
EQ: K2

##### Functions

MA: I2 D2 R3 M3 L2  
PA: S1 E1  
SA: S2 L2 I2

##### Context

EC: L1  
SS: 6  
TC: A1 R2  
SC: 8 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 4011-B COST CLERK

Calculates and investigates wage, material, overhead and other operating costs of an establishment.

Calculates and analyses items, such as overhead expenditure, labour cost and material, working from records such as time sheets, production sheets and payrolls. Undertakes cost investigations, including those relating to quotations, estimates and proposed expenditure, and prepares reports. Verifies claims involving routine investigation. Calculates standard costs and value from purchase invoices and shipping files and prepares journal entries. Maintains a record of inventory transfers, surplus or scrap materials, salvage and rejection. Assists in the preparation of actual cost computation.

#### Job Content Factors

##### Workers

FP: GE11-12y  
or FP: GE10-11y  
HC: CEI  
IP: T3m  
IP: T1m E1y  
RQ:

##### Materials

SM: D1 T2  
EQ: K2

##### Functions

MA: I2 A2 D2 R4 M3 L2  
PA: S1 E2  
SA: S1

##### Context

EC: L1  
SS: 3  
TC: A1 R2  
SC: 6 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 4011-C AUDIT CLERK

Verifies accuracy of figures, calculations and postings pertaining to business transactions recorded by other workers and compiles reports.

Checks and certifies entries, calculations and postings. Corrects small errors and lists others to be adjusted.

May assist in the preparation of financial statements and in making up the books of account prior to audit.

#### Job Content Factors

##### Workers

FP: GE11-12y PSP2y(PPC)  
or FP: GE10-11y  
HC: CEI  
IP:  
IP: T3m  
RQ:

##### Materials

SM: D1 P2  
EQ: K2

##### Functions

MA: I2 A2 D2 R3 M3 L2  
PA: S1 E1  
SA: S1

##### Context

EC: T2 L1  
SS: 8  
TC: A1 R2 T2  
SC: 10 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 4011-D ACCOUNTS CLERK

Undertakes routine documentation and general duties associated with the monitoring of creditor and debtor accounts.

Receives invoices, cheques, payments advice and other documentation related to accounts payable and receivable. Confirms the liability of the organisation for payment and obtains authorisation of payment. Reports on variation between invoice amounts and payments received. Assists in the preparation of debtors' list and prepares procedural reports relating to monies outstanding. Allocates expenditure to correct budget accounts. Summarises expenditure under various headings in accordance with company accounting system. Arranges payment by cheque or other means. Prepares correspondence associated with payments for action by credit or sales sections.

May work with creditor or debtor accounts and be designated accordingly, e.g.

Accounts Payable Clerk

Accounts Receivable Clerk

#### Job Content Factors

##### Workers

FP: GE10-11y  
or FP: GE10-11y  
HC: CSI  
IP: T3-4m  
IP: T1m E1y  
RQ:

##### Materials

SM: D1 P2  
EQ: K1

##### Functions

MA: I2 A2 D2 R3 M3 L2  
PA: S1 E1  
SA: S2 L2 I1

##### Context

EC: L1  
SS: 3  
TC: A1 R2  
SC: 6 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 4011-E CASHIER, OFFICE

Receives and pays out cash on behalf of organisation and attends to the preparation and execution of the daily banking.

Receives incoming cash from customers or through mail. Counts monies received and prepares daily banking. Compares cash received with sales dockets or cash receipts. Prepares petty cash disbursements and cashes authorised cheques. Maintains records of bank deposits as appropriate. Attends to banking on a daily basis and handles payments of drafts. Assists with drawing of cheques and filing of receipts.

May prepare wages in small companies.

#### Job Content Factors

##### Workers

FP: GE10-11y  
HC: CSR  
IP: T1m E1y  
RQ: D2

##### Materials

SM: D1 P2 T2  
EQ: K2

##### Functions

MA: D2 R3 M3 L3  
PA: S1 E1  
SA: S1 I1

##### Context

EC: L1  
SS: 3  
TC: A1 R2 T1  
SC: 7 (vy)

LMS: 0 (?) %SE)

ASIC: Many

### 4011-F PAYROLL CLERK

Prepares payroll and related records.

Maintains payroll records under supervision. Verifies computer print-out. Adjusts records at the time of approved salary increases or award changes. Calculates wages owing at the end of each pay period and prepares basic documents for use by paymaster/paymistress.

May maintain records on overtime, absenteeism and any other variations in working arrangements and be designated accordingly, e.g.

## Timekeeping Clerk

*Job Content Factors*

<i>Workers</i>	
FP: GE10-11y	IP: T2-4m E0-1y
HC: C1	RQ: U2
<i>Materials</i>	
SM: D1	EQ: K2
<i>Functions</i>	
MA: I2 D2 R3 M3 L2	
PA: S1 E1	SA: S1

*Context*

EC: L1	TC: A1 R1 T2
SS: 3	SC: 5 (vy)
<i>LMS: NA (0 %SE)</i>	
<i>ASIC: Many</i>	

**4011-Z BOOKKEEPERS AND ACCOUNTING CLERKS nec**

This residual group covers bookkeeping and accounting clerks not elsewhere classified in Unit Group 4011.

**4012 BANK TELLERS AND CLERKS**

This unit group covers occupations concerned with handling money in banks and related financial institutions.

**Entry Requirements** Year 11-12 and, in some cases, one year's experience.

**Activities include** counting and verifying amounts of money upon receipt or payment; recording each transaction and issuing receipts; receiving and changing money; and providing management with records of cash transactions.

**4012-A BANK TELLER**

**Teller; Teller, Building Society; Teller, Credit Union**

Receives and pays out money, keeps record of transactions and issues receipts. Cashes cheques and other negotiable instruments.

Accepts money from customer, verifies deposit, issues receipt, enters details in customer account or passes to other staff for this to be done. Pays money to customer according to written advice received on formal advice slips, or negotiable instruments, debits customer account or arranges for this to be done. Records all transactions for the day or period, balances cash, advises management of cash position, orders cash where necessary or forwards excess to other areas.

May use computerised cash register to record transactions. May advise on investment stock.

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y	IP: T2m E1y
HC: CSE	RQ: D2
<i>Materials</i>	
SM: D1 P2	EQ: K1
<i>Functions</i>	
MA: D2 R3 M3 L3	
PA: W1 E1	SA: S1 I1
<i>Context</i>	
EC: L1	TC: A1 R2 T2
SS: 2	SC: 7 (vy)
<i>LMS: NA (0 %SE)</i>	
<i>ASIC: 614</i>	

**4012-B BANK OFFICER**

**Bank Clerk**

Carries out a range of clerical functions in a bank, performing any combination of the following duties.

Conducts daily exchange of cheques between banks. Adjusts customer accounts according to directions received through the banking system, either manually or by computer. Records teller activities and provides information on daily transactions. Makes balancing entries in bank records, assists bank accountant with daily balance. Records entries in other areas of bank transactions, such as savings deposits, foreign exchange transactions and travellers cheques.

May specialise in areas of bank work, such as international banking, travel services, investment and portfolio management; may supervise unit trusts and superannuation funds, property management and bank card facilities. May specialise in a particular aspect of bank work, such as in the recording of customer transactions and printouts of statements; handling bills of exchange other than cheques; and in handling securities offered against loans, and be designated accordingly, e.g.

Bill Clerk	Building Society Clerk
Credit Union Clerk	Ledger Examiner
Security Clerk	

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y	IP: T4-6m
HC: CSI	RQ: D2
<i>Materials</i>	
SM: D1 P2	EQ: K2
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: S2 W2 E1	SA: S2 L2 I1
<i>Context</i>	
EC: L1	TC: A1 R2
SS: 4	SC: 7 (vy)
<i>LMS: NA (0 %SE)</i>	
<i>ASIC: 614</i>	

**4012-Z BANK TELLERS AND CLERKS nec**

This residual group covers bank tellers and clerks not elsewhere classified in Unit Group 4012.

### 4013 INSURANCE CLERKS

This group covers occupations concerned with the various forms of documentation necessary in insurance organisations.

#### Entry Requirements Year 11-12

**Activities include** accepting, processing and paying insurance claims; account recording; and performing receipt payment and recording duties.

#### Related Occupations

Occupation 4014-A : Actuarial Clerk

#### 4013-A CLERK, GENERAL INSURANCE

Carries out clerical functions incidental to the transaction of various types of insurance performing a combination of the following duties.

Processes all brokers' correspondence and determines relevant action to be taken. Assists in the placement of all reinsurance lines in excess of the amounts set by a manual of standard procedures. Conducts monthly balances of relevant accounts and summarises all reinsurance with particular companies to determine outstanding amount of risk at that point in time. Prepares, checks, signs and dispatches standard endorsements. Attends to telephone and counter inquiries from clients and brokers. Prepares and forwards standard letters as set out in a manual of procedures. Maintains conservation statistics by completing the relevant forms. Maintains and updates a computer file by batch or on-line submission of data. Dispatches notices of premiums due.

##### Job Content Factors

###### Workers

FP: GE11-12y

IP: T6-12m

HC: CIS

RQ: D2

###### Materials

SM: D1

EQ: K2

###### Functions

MA: I2 D2 R2 M3 L2

PA: S1 E1

SA: S2 L2 I2

###### Context

EC: L1

TC: A1

SS: 4

SC: 7 (vy)

LMS: NA (0 %SE)

ASIC: 62

#### 4013-B CLERK, POLICY HOLDER SERVICES

Carries out clerical functions associated with administration of life insurance.

Issues, receives and checks proposals for new business and addition of extra benefits to and from agents. Assesses life and accident business to determine whether the risk is acceptable

to the company. Calculates stamp duty for inclusion on government returns. Assists agents or policy-holders on technical matters relating to individual cases, within the guidelines set out by a manual of procedures. Prepares and submits new business through an on-line computer system. Forwards new policy documents to policy holder or agent. Effects accepted changes in original contract. Recalculates benefits, premium, method of payments and increase or decrease in sum assured, using rates and tables. Dispatches notices of premiums due and relevant correspondence concerning conservation or transfers. Maintains and updates a computer file by on-line or batch submission. Assists in general queries received from policy holders concerning renewals and payments. Reconciles relevant accounts. Processes inquiries from policy holders or agents via a terminal network or by using a calculator and relevant statistical tables. Processes any claims arising out of surrenders, maturities or the granting of loans. Assesses sickness and accident claims. Corresponds with policy holders.

##### Job Content Factors

###### Workers

FP: GE11-12y

IP: T9-12m

HC: CI

RQ: D2

###### Materials

SM: D1

EQ: K2

###### Functions

MA: I2 D2 R3 M3 L2

PA: S1 E1

SA: S2 L2 I2

###### Context

EC: L1

TC: A1 R2

SS: 3

SC: 6 (vy)

LMS: NA (0 %SE)

ASIC: 62

#### 4013-Z INSURANCE CLERKS nec

This residual group covers insurance clerks not elsewhere classified in Unit Group 4013, e.g.

Fund Administration Clerk, Superannuation  
Technical Service Clerk, Superannuation

### 4014 STATISTICAL CLERKS

This unit group covers occupations concerned with compiling statistics based on routine or special information, preparing tables, graphs and reports on original data, and assisting in the interpretation of statistical studies.

### Entry Requirements Year 10-12.

**Activities include** compiling statistics; using calculating machines for computations; updating information in computer files; assembling and classifying statistics; preparing tables, graphs and reports; and verifying authenticity of source material.

#### 4014-A ACTUARIAL CLERK

Performs actuarial computations and compiles charts and graphs for use in actuarial studies.

Computes, using calculating machine, actuarial data, such as premium rates, policy reserve values, amounts at risk, amounts of bonus, surrender values, loan values and paid up policy values. Controls and reconciles the updating of computer files in respect of policy information relevant for actuarial purposes. Prepares actuarial/statistical statutory returns. Compiles results of calculations into tables and graphs to be used in actuarial studies.

##### Job Content Factors

<i>Workers</i>	
FP: GE11-12y	IP: T1y
HC: ICE	RQ: U2
<i>Materials</i>	
SM: D1	EQ: K2
<i>Functions</i>	
MA: I2 A2 D2 R3 M2 L2	
PA: S1 E1	SA: S1
<i>Context</i>	
EC: L1	TC: A1
SS: 8	SC: 10 (vy)
LMS: 1000 (? %SE)	ASIC: 62

#### 4014-B STATISTICAL CLERK Statistics Clerk

Compiles and tabulates statistics for use in statistical studies.

Compiles statistics from source materials, such as production, sales, advertising, quality control and test records, expense invoices, debit notes, merchandise budgets, bank records, time sheets, survey sheets and charts and data from industry associations and the government statistical bureau. Assembles and classifies statistics following prescribed procedures. Operates adding machine and calculator to complete statistical formulas. Verifies authenticity of source material.

May maintain productivity and efficiency charts. May be designated according to type of statistics compiled, e.g.

Statistical Clerk, Advertising  
Statistical Clerk, Production

##### Job Content Factors

<i>Workers</i>	
FP: GE10-11y	IP: T3m
HC: CIS	RQ:
<i>Materials</i>	
SM: D1	EQ: K2
<i>Functions</i>	
MA: I2 D3 R4 M3 L3	
PA: S1 E1	SA: S1
<i>Context</i>	
EC: L1	TC: A1 R2
SS: 4	SC: 7 (vy)
LMS: 0 (? %SE)	ASIC: Many

### 4019 OTHER BOOKKEEPING, BANKING AND INSURANCE ACCOUNT RECORDING AND RELATED OCCUPATIONS

This unit group covers occupations concerned with documenting various aspects of bookkeeping, banking and insurance account recording work in organisations not elsewhere classified in Minor Group 401.

**Activities include** recording, checking, listing, transferring and detailing information regarding customers and clients of share businesses, funding of finance organisations, disbursing payment of claims or accounting for funds and contributions, either by manual or computerised means.

#### 4019-A SCRIP CLERK, STOCKBROKING

Processes documents in a stockbroking establishment to ensure registration of marketable securities, performing any combination of the following duties.

Records transfer documentation received from clients and other stockbroking firms. Checks validity of documents and allocates documentation to purchasers. Forwards transfer documents to the company's share registrar for up-dating the register of shareholders. Where applicable, claims accruing dividends and new issues.

May perform a specific type of activity or work in a specific area and be designated accordingly, e.g.

New Issues/Dividends Clerk  
Registration Clerk  
Settlements Clerk

##### Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP2y(PPC)	IP: T2m
or FP: GE10-11y	IP: T1y
HC: CEI	RQ:

<i>Materials</i>	
SM: D1	EQ: K2
<i>Functions</i>	
MA: I2 D2 R3 M3 L2	
PA: S1 E1	SA: S1
<i>Context</i>	
EC: L1	TC: A1 R2 T2
SS: 2	SC: 6 (vy)
LMS: 500 (? %SE)	ASIC: 6172

**4019-B INVOICE CLERK**

Performs clerical functions necessary for the maintenance of invoice records.

Receives order forms and unextended invoices from various departments, such as sales, supply, distribution and dispatch. Extends order forms in accordance with customer price arrangements and sends to warehouse for dispatch of finished goods. Ensures the accuracy of price and maintains records of special rebate or discount arrangements.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-11y	IP: T1-2m
HC: CSR	RQ:
<i>Materials</i>	
SM: D1 T2	EQ: K2
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: S1 E1	SA: S1 I1
<i>Context</i>	
EC: L1	TC: A1 R1
SS: 3	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

**4019-Z BOOKKEEPING, BANKING AND INSURANCE ACCOUNT RECORDING AND RELATED OCCUPATIONS nec**

This residual group covers bookkeeping, banking and insurance account recording and related occupations not elsewhere classified in Unit Group 4019, e.g.  
Clerk, Hospital Benefit Fund

**MINOR GROUP 402**  
**BUSINESS MACHINE OPERATING OCCUPATIONS**

Business Machine Operating Occupations are classified in the following unit groups.

- 4020 Supervisors, Business Machine Operators
- 4021 Office Business Machine Operators
- 4022 Electronic Data Processing Equipment Operators

*Related Occupations*

Minor Group 400 : Stenographic and Typing Occupations

**4020 SUPERVISORS, BUSINESS MACHINE OPERATORS**

This unit group covers occupations concerned with supervising and co-ordinating operators of office business machines and electronic data processing equipment.

**Entry Requirements** Year 11-12 and/or a para-professional certificate and 2-5 years' related work experience.

**Activities include** supervising and co-ordinating the activities of workers engaged in classifying, computing and transferring data; recording, extracting, comparing and reporting information; reproducing copies and preparing mail for distribution.

*Related Occupations*

Unit Group 4000 : Supervisors, Stenographic and Typing Occupations

**4020-A SUPERVISOR, ELECTRONIC DATA PROCESSING EQUIPMENT OPERATORS**

Supervises and co-ordinates activities of workers engaged in operating electronic and electro-mechanical machines that record, store, process and transcribe data from punch cards, paper and magnetic tape or other sources, solve mathematical, engineering or technical problems and keep records and supply data.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP1-2y (PPC) or FP: GE11-12y	IP: T1m E2y IP: T2m E3-5y
HC: ECI	RQ: U1
<i>Materials</i>	
SM: D1 P2 T2	EQ: K1
<i>Functions</i>	
MA: I2 A2 P1 D2 R2 M2 L2 PA: S2 W2 E1	SA: S1 B1 R3-4
<i>Context</i>	
EC: L1 SS: 6	TC: A1 I1 T1 SC: 8 (vy)

LMS: NA (0 %SE) ASIC: Many

**4020-B SUPERVISOR, OFFICE BUSINESS MACHINE OPERATORS**

Supervises and co-ordinates activities of personnel engaged in operating bookkeeping, billing, calculating, accounting, coding, duplicating, photocopying, embossing, addressing, folding and inserting, counting and other office machines, for recording, computing and classifying data about business transactions or activities; reproducing copies; preparing mail for distribution and performing other general office duties.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in operating a particular type of office machine and be designated accordingly, e.g. Supervisor, Bookkeeping Machine Operators

*Job Content Factors*

<i>Workers</i>	
FP: GE11y HC: ECR	IP: T1w E2-5y RQ:
<i>Materials</i>	
SM: D2 P1 T2	EQ:
<i>Functions</i>	
MA: I2 P1 D2 R3 M3 L2 PA: P2 S2 W2 E1	SA: S2 L2 I2 B1 R3-4
<i>Context</i>	
EC: L1 SS: 6	TC: A1 T2 SC: 8 (vy)

LMS: NA (0 %SE) ASIC: Many

4021 OFFICE BUSINESS MACHINE OPERATORS

This unit group covers occupations concerned with the operation of various office business machines to facilitate the recording of data.

**Entry Requirements** Year 11 and/or a basic vocational/para-professional qualification and up to one year's experience.

**Activities include** bookkeeping, billing, adding, calculating, accounting, coding, recording, computing and classifying data and preparing mail by machine for distribution.

Related Occupations

- Unit Group 4022
- : Electronic Data Processing Equipment Operators
- Unit Group 4002
- : Typists and Typists-Clerk

4021-A ACCOUNTING MACHINIST  
Accounting Machine Operator

Records financial transactions of establishment, using bookkeeping machine.

Sorts documents to be posted, such as cheques and debit and credit items. Selects and places bookkeeping form on writing surface of machine, and sets carriage. Depresses keys of machine keyboard to record identifying headings and data, and to calculate and post totals, net amounts, and other computations. Verifies entries, and summarises and balances totals to ensure accuracy. Prepares periodic trial balances and other statistical information as required. Operates other office machines, such as adding and calculating machines.

May keep one phase or section of complete set of records pertaining to business transactions of establishment and be designated accordingly.

Job Content Factors

<i>Workers</i>	
FP: GE11y PSP1-2y(PPC) / (B) or FP: GE11y HC: CR	IP: T1m IP: T1-2m E0-1y RQ:
<i>Materials</i>	
SM: D1 T2	EQ: M2 K1
<i>Functions</i>	
MA: I2 D2 R4 M3 L2 PA: P1 S2 W2 E1	SA: S2 L2
<i>Context</i>	
EC: L1 SS: 2	TC: A1 R1 T2 SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: 47/48/61/62

4021-B CALCULATOR OPERATOR  
Comptometrist

Computes and records statistical, accounting and other numerical data, using a machine that automatically performs

mathematical calculations.

Presses keys of machine keyboard and manipulates levers to add, subtract, multiply, divide or perform other calculations. Posts results of calculations to forms or documents, such as inventories, payrolls, invoices, test reports and statistical summaries.

May verify computations made by other workers. May be designated according to trade name of machine, type of computations made or subject matter.

Job Content Factors

<i>Workers</i>	
FP: GE11y HC: CR	IP: T1-2m E0-1y RQ:
<i>Materials</i>	
SM: D1 T2	EQ: M2 K1
<i>Functions</i>	
MA: I2 D2 R4 M2 L2 PA: P1 S2 W2 E1	SA: S2 L2
<i>Context</i>	
EC: L1 SS: 2	TC: A1 R1 T2 SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: Many &

4021-Z OFFICE BUSINESS MACHINE OPERATORS nec

This residual group covers occupations concerned with operating office business machines not elsewhere classified in Unit Group 4021, e.g. operating simple copying or adding machines, repetitive address labelling machines for envelopes or form letters, and searching, scanning and sorting machines, Adding Machine Operator, Microfilm Records Searcher, Address Labelling Machine Tender

4022 ELECTRONIC DATA PROCESSING EQUIPMENT OPERATORS

This unit group covers occupations concerned with operating electronic and electromechanical data processing machines.

**Entry Requirements** Year 10-12 and, in some cases, a basic vocational/para-professional certificate and up to one year's related work experience.

**Activities include** recording, storing, processing and transcribing data to and from punch cards, paper, magnetic tape, discs or other material; and operating machines that are used to solve mathematical, engineering or technical problems, and to print and supply this data.

*Related Occupations*

Unit Group 4021 : Office Business Machine Operators

4022-A      **COMPUTER OPERATOR**  
Console Operator (Computer); Digital  
Computer Operator

Operates and controls electronic computer to process business, scientific, engineering, or other data or to solve problems in these areas.

Sets control switches on computer and peripheral equipment, such as external memory, data communicating, synchronising, input and output recording, or display devices, to integrate and operate equipment according to program and data requirements specified in written operating instructions. Selects and loads input and output units with materials, such as discs, tapes, punch cards or printout forms, for operating runs, or oversees operators of peripheral equipment who perform these functions. Performs actions required to start computer system operation. Performs actions required to schedule computer job flow. Observes equipment and control panel on computer console for error lights, verification printouts, error messages, stoppages and faulty output. Stores commands into computer console, according to predetermined instructions, to correct error or failure to resume operations. Notifies supervisor of errors or equipment stoppage. Performs actions required to change modes of operation or to cease operation. Records operating data, such as in-use and down time. Performs stationery replenishment and related tasks.

May type alternate commands into central control unit of computer. May control computer to provide input and output for another computer. May assist in training of less skilled staff. May carry out maintenance of tape library. May maintain logs. May perform routine maintenance and cleaning of equipment.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE11-12y	IP: T1-6m
HC: CRI	RQ: U1
<i>Materials</i>	
SM: D1 T2	EQ: K1
<i>Functions</i>	
MA: I2 P2 D2 R2 M3 L2	
PA: H2 S2 W2 E1	SA: S1
<i>Context</i>	
EC: L1	TC: A1 I1 T2
SS: 4	SC: 8 (vy)
LMS: 6000-7500(0 %SE)      ASIC: Many	

4022-B      **COMPUTER PERIPHERAL EQUIPMENT OPERATOR**  
Computer Support Equipment Operator

Operates a variety of computer-peripheral (ancillary) equipment that converts data from one form to another, and sorts, tabulates, reads, prints and punches data, by performing any combination of the following duties.

Mounts and positions materials, such as reels of magnetic tape and discs onto spindles, decks of cards into hoppers, bank cheques into magnetic ink reader sorter, notices in optical scanner and carriage tape or output forms into printing devices. Sets guides, keys and switches according to oral and written instructions, to prepare equipment for operation. Presses switches to staff off-line machines, such as tape or card computer input and output devices, and high-speed printer or other output recorder. Watches machines and error

lights to detect machine malfunction. Notifies supervisor of malfunctioning or stoppage of machines or faulty output of data. Unloads cards, discs or reels of tape from machine and identifies and routes them to library or storage. Separates and sorts printed output forms; may use sorting machine, to prepare them for distribution.

May operate computer console in absence of computer operator. May confine activities to one type of machine and be designated accordingly, e.g.

Computer Output/Microfilm Operator  
Converter Machine Operator  
High-Speed Printer Operator  
Sorting Machine Operator  
Unit Record Equipment Operator

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE11-12y	IP: T1m
HC: CR	RQ: U2
<i>Materials</i>	
SM: D1 T2	EQ: K1
<i>Functions</i>	
MA: D2 R3 M3 L2	
PA: H2 S2 W2 E1	SA: S1
<i>Context</i>	
EC: L1	TC: A1 I2 R2 T2
SS: 2	SC: 5 (vy)
LMS: NA (0 %SE)      ASIC: Many	

4022-C      **REMOTE COMPUTER TERMINAL OPERATOR**  
Scheduler, Data Entry

Operates keyboard to transmit data to computer.

Gives command at console to signal computer at beginning of transmission. Types data according to copy, using series of code numbers for storage purposes. Corrects errors and makes changes according to predetermined procedures. Keeps record of data transmitted from terminal. Signals computer by code to retrieve data. Obtains daily storage report from computer to confirm accuracy of data stored. Keeps log composed of messages sent to and received from computer. Carries out routine maintenance and cleaning of equipment.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE11y	IP: T1m
HC: CRI	RQ: U1
<i>Materials</i>	
SM: D1 T2	EQ: K1
<i>Functions</i>	
MA: I2 D2 R3 M3 L2	
PA: P2 S1 E1	SA: S1
<i>Context</i>	
EC: L1	TC: A1 I2 R2 T2
SS: 2	SC: 5 (vy)
LMS: NA (0 %SE)      ASIC: Many	

4022-D      **KEY PUNCH OPERATOR**  
Card Punch Operator

Operates alphabetic and numeric key-punch machine, similar in operation to that of electric typewriter, to transcribe data from source material onto punch cards.

Attaches punched program card around machine drum to control duplication and spacing of constant data. Loads machine with decks of punch cards. Moves switches and depresses keys to select automatic or manual duplication and spacing, to select alphabetic or numeric punching and transfer cards through machine stations. Depresses keys to transcribe data in prescribed sequence from source material into perforations on cards. Inserts previously punched card into card gauge to verify registration of punches. Observes machine to detect faulty feeding, positioning, ejecting, duplicating, skipping, punching, or other mechanical malfunctions, and notifies supervisor of defects. Removes jammed cards by pressing release lever.

May tend machines that automatically sort, merge or match punch cards into specified groups. May convert alphabetic, numeric and symbolic data into coded form on punch cards or tapes, using special purpose electric typewriter. May perform verifying duties and be designated accordingly, e.g.

- Typist, Data Processing
- Verifier Operator
- Data Entry Operator
- Tabulating Machine Operator

Job Content Factors

<i>Workers</i>	
FP: GE10-11y PSP2-3w(B) or FP: GE10-11y HC: CR	IP: T1m IP: T1m E0-1y RQ:
<i>Materials</i>	
SM: D1 T2	EQ: K1
<i>Functions</i>	
MA: D3 R4 L3 PA: P1 H2 S1 E1	SA: S1
<i>Context</i>	
EC: L1 SS: 2	TC: A1 R1 T1 SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

4022-E WORD PROCESSER OPERATOR

Operates keyboard linked to visual display terminal and line printer to type original work, edit text, and produce continuous or individual typewritten copy.

Selects and loads input and output units with blank or processed disks and tapes as required. Types original text in format required by author. Sets out standard formats to accept print merging. Recalls processed work for text editing. Corrects proofed text according to instructions. Inserts paper roll or individual paper sheets into line printer to produce desired copy.

May reproduce letters composed of predesignated standard paragraphs by pushing button for each paragraph in sequence.

Job Content Factors

<i>Workers</i>	
FP: GE10-12y PSP or FP: GE10-12y PSP4-52w(B) / (PPC) HC: CRS	IP: T1-3m E1y IP: T1m RQ:
<i>Materials</i>	
SM: D1 P2 T2	EQ: K1
<i>Functions</i>	
MA: I2 P2 D2 R4 L2 PA: P1 S1 E1	SA: S1
<i>Context</i>	
EC: L1 SS: 5	TC: A1 SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: Many

4022-F TELEX OPERATOR  
Teleprinter Operator

Sends and receives messages using telex machine or teleprinter.

Turns on machine and types identifying code for station called, or acknowledges calls from other stations. Types outgoing messages when stations are connected. Receives data from other telex centres and communicates on open line as appropriate. Forwards telex input and output to appropriate persons. Maintains records of messages sent and received, including the time taken for telex transmission for the purpose of verifying accounts payable.

Job Content Factors

<i>Workers</i>	
FP: GE10-12y HC: CR	IP: T1m E6m RQ:
<i>Materials</i>	
SM: D1 T2	EQ: K1
<i>Functions</i>	
MA: P2 D2 R3 L2 PA: P1 S2 W2 E1	SA: S1
<i>Context</i>	
EC: L1 SS: 3	TC: A1 SC: 5 (vy)
LMS: 1500 (? %SE)	ASIC: Many

4022-Z ELECTRONIC DATA PROCESSING  
EQUIPMENT OPERATORS nec

This residual group covers occupations concerned with operating electronic data processing equipment not elsewhere classified in Unit Group 4022, e.g. machines that decipher messages, sort cards of various types, and convert card and tape data for use in other equipment,

- Card-Tape Converter Operator
- Cryptographic Machine Operator
- Sorting Machine Tender

MINOR GROUP 403  
SCHEDULING AND DISPATCHING OCCUPATIONS

Scheduling and Dispatching Occupations are classified in the following unit groups.

- 4030 Supervisors, Scheduling and Dispatching Occupations
- 4031 Production/Scheduling Clerks
- 4032 Shipping, Transportation and Receiving Clerks
- 4033 Stock Clerks and Related Occupations
- 4034 Weighers

4030 SUPERVISORS, SCHEDULING AND DISPATCHING OCCUPATIONS

This unit group covers occupations concerned with supervising and co-ordinating the activities of employees involved in scheduling, dispatching and recording material.

**Entry Requirements** Year 11-12 and/or a basic vocational/para-professional/associate diploma qualification and 5 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN: supervising persons engaged in receiving, storing, issuing, ordering, shipping, requisitioning and accounting for materials; expediting and controlling the flow of materials and preparing work and production schedules.

4030-A SUPERVISOR, PRODUCTION AND SCHEDULING CLERKS

Supervises and co-ordinates activities of workers engaged in expediting flow of work and materials, examining orders for goods and services, preparing work or production schedules, routing parts for fabrication or repair and compiling records and reports.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.  
Supervisor, Job-Order Clerks  
Work Shop Controller

Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP2y(Adip) / (PPC)	IP: T3m E5y
or FP: GE11-12y	IP: T3m E5y
HC: ECI	RQ:
<i>Materials</i>	
SM: D1 P2 T2	EQ:
<i>Functions</i>	
MA: I2 A2 P1 D2 R2 M3 L2	
PA: S2 W2 E1	SA: S2 L2 I2 B1 R2-4
<i>Context</i>	
EC: L1	TC: A1 T1
SS: 6	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: Many

4030-B SUPERVISOR, SHIPPING, TRANSPORTATION AND RECEIVING CLERKS

Supervises and co-ordinates activities of workers engaged in assembling, packing, addressing, stamping, loading and transporting merchandise, freight, goods or material and receiving, unpacking, sorting, verifying and recording incoming merchandise or materials.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.  
Armoured Car Service Supervisor  
Depot Master/Mistress, Road Transport; Transport Supervisor  
Dispatch Supervisor, Shipping Clerks  
Pit Controller

Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP1-2y(PPC) / (B)	IP: T3m E5y
or FP: GE11-12y	IP: T3m E5y
HC: ECI	RQ: S2
<i>Materials</i>	
SM: D1 P2 T2	EQ:
<i>Functions</i>	
MA: I2 A2 P1 D2 R2 M3 L2	
PA: S2 W2 E1	SA: S2 L2 I2 B1 R2-4
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 6	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: Many



**Activities include** documenting, recording, verifying, unpacking, sorting, addressing, stamping, loading, dispatching and receiving inwards and outwards goods or equipment or messages; and rostering staff to be available for transportation services.

*Related Occupations*

Unit Group 4033 : Stock Clerks and Related Occupations

4032-A      **IMPORT FREIGHT CLERK**  
**Shipping Clerk, Import**

Compiles documents on incoming cargo shipments to facilitate removal of cargo from dock, and prepares bill for shipping charges.

Examines ship's manifest (list of cargo) and bills of lading to determine work procedures for releasing cargo. Contacts terminal employees by telephone to determine when cargo will be available for removal from dock. Notifies consignee or agent by letter or other means, of arrival dates of shipment, customs clearance requirements and tonnage of shipment. Stamps bill of lading in order that cargo may be removed from dock. Computes from bills of lading, shipping, storage and demurrage charges. Prepares bill for charges and submits it to accounting department for collection. Checks bill of lading against enclosure slip, and converts rates from foreign exchange. Prepares photocopies of bills of lading, advice notes, customs and other documents on duplicating machine to mail out to customers.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP	IP: T2m E5y
or FP: GE12y PSP1y(B)	IP: T2m E2-4y
HC: CIE	RQ: S2
<i>Materials</i>	
SM: D1 P2	EQ:
<i>Functions</i>	
MA: I2 D2 R3 M3 L2	
PA: S1 E1	SA: S2 L2 I1
<i>Context</i>	
EC: L1	TC: A1 I2 T2
SS: 5	SC: 7 (vy)
LMS: NA (0 %SE)      ASIC: Many	

4032-B      **EXPORT FREIGHT CLERK**  
**Shipping Clerk, Export**

Books outbound freight shipments on company ships to ensure capacity cargo for each ship.

Ascertains from shipper, type, tonnage, destination and shipping date to determine ship in which to book cargo. Consults booking sheet to ascertain if space is available for shipment. Informs shipper, by letter or other means, of name of ship on which cargo is booked, date of sailing and time to deliver shipment to dock. Prepares bill of lading and enters particulars on ship's manifest. Forwards documentation to customer. Records booking of cargo on control sheet, listing tonnage and type of cargo, and shipper's name and destination.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP	IP: T2m E5y
or FP: GE12y PSP1y(B)	IP: T2m E2-4y
HC: CIE	RQ: S2
<i>Materials</i>	
SM: D1 P2	EQ:
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: S1 E1	SA: S2 L2 I1

<i>Context</i>	
EC: L1	TC: A1 I2 T2
SS: 5	SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: Many

4032-C      **SHIPPING CLERK**

Arranges and prepares for dispatch of goods and keeps pertinent records.

Determines method of shipment, utilising knowledge of shipping procedures, routes and rates. Counts and compares quantity and identification numbers of units against shipping order or invoice. Seals loaded freight cars or transport trucks prior to shipping. Prepares containers or selects prefabricated containers and places items into them, using spacers, fillers and protective padding. Prepares orders and invoices for shipping by writing on them identifying information, such as customer name and address, date, type and price of goods, goods not available or substituted and signature.

May weigh articles and attach postage or bill of lading. May be concerned with assembling and checking shipments and be designated accordingly, e.g.

Shipment Assembler      Wool Shipping Checker

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP1y(B)	IP: T1m E1y
or FP: GE12y	IP: T1m E1y
HC: CR	RQ:
<i>Materials</i>	
SM: D1 T2	EQ: N1 M2
<i>Functions</i>	
MA: D2 R4 M3 L2	
PA: U1 H1 S2 W2 E2	SA: S2 L2
<i>Context</i>	
EC: L1	TC: A1 R2 T2
SS: 3	SC: 6 (vy)
LMS: NA (0 %SE)      ASIC: Many	

4032-D      **RECEIVING CLERK**  
**Receiving Checker**

Receives, unpacks and examines goods and verifies consignments received against bills of lading, invoices and other records.

Examines incoming consignments to detect defects and sorts items according to extent of defect. Contacts sender to rectify damages or shortages and keeps record of factors causing goods to be returned. Advises purchasing department of damages or shortages. Attaches identification data to article. Issues receipts and keeps records of goods received. Routes goods received to various departments.

May direct material handlers and other workers in receiving department. May possess specialist qualifications to enable verification of goods to be made. May be designated according to one aspect of receiving, e.g.

Freight-Receiving Clerk      Invoice-Control Clerk  
Returned-Goods Receiving Clerk

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-12y	IP: T2-3m E4y
HC: RCE	RQ:

Materials	
SM: D1 P2 T2	EQ:
Functions	
MA: D3 R4 M3 L2	
PA: U1 H1 W1 E3	SA: S2 L2 B2 R4
Context	
EC: L1	TC: A1 R2
SS: 3	SC: 6 (vy)

LMS: NA (0 %SE)ASIC: Many

4032-E      DISPATCHER, RADIO  
Radio Operator (Dispatch); Radio Telephone  
Operator

Receives messages from various sources, dispatches assistance and relays messages to other units, using radio.

Records messages received and radio calls relayed and received in log book. Co-ordinates police, fire, ambulance and other emergency requests relaying instructions to radio unit concerned. Monitors broadcasting activities of mobile units and fixed stations and reports activities to supervisor. Prepares monthly report of radio traffic handled.

May operate teletype machine to send and receive messages. May direct activities of fire-alarm and signal operators engaged in receiving messages from public. May dispatch boats, using landline and radio-telephone, or may dispatch fire crews, protective service or repair crews and be designated accordingly, e.g.

- Dispatcher, Fire Brigade      Dispatcher, Taxi  
Dispatcher, Marine      Dispatcher, Police  
Dispatcher, Ambulance  
Dispatcher, Protective Services  
Dispatcher, Automobile Association

Job Content Factors	
Workers	
FP: GE10-11y	IP: T1-2m E1-3y
HC: ECR	RQ: S2 A1
Materials	
SM: D2 P1 T2	EQ: K1
Functions	
MA: I2 P1 D2 R3 L2	
PA: S1 E1	SA: A2 S2 I2

Context	
EC: L1 C04	TC: A1 I1 R2 T2
SS: 3	SC: 6 (vy)
LMS: NA (0 %SE)	
ASIC: 9134	

4032-F      LOAD CONTROLLER, AIR TRANSPORT

Compiles load control information according to established guidelines to ensure permissible weight load of aircraft is adhered to.

Determines maximum weight load of respective aircraft by consulting technical data and approved standards. Calculates fuel, cargo and passenger weights for journey or part thereof. Computes known alterations to load during course of journey. Plans distribution of weight to ensure satisfactory balance and stowage. Records information on loading bills and cargo flight plan instructions for loading staff. Transmits load information to destination and necessary airports en route.

Job Content Factors	
Workers	
FP: GE10-12y	IP: E4y
HC: RSC	RQ: U2
Materials	
SM: D1 T2	EQ:
Functions	
MA: A2 P1 D2 R2 M3 L2	
PA: S2 W1 E1	SA: S2 B2 R4
Context	
EC: L1	TC: I2 T2
SS: 3	SC: 5 (na)
LMS: 1000 (0 %SE)	
ASIC: 54	

4032-Z      SHIPPING, TRANSPORTATION AND  
RECEIVING CLERKS nec

This residual group covers shipping, transportation and receiving clerks not elsewhere classified in Unit Group 4032, e.g.

- Delivery Clerk      Freight Clerk  
Roster Clerk      Trucks Clerk  
Wharf Clerk  
Timetable and Train Delay Clerk

4033      STOCK CLERKS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with storing and recording goods and material.

**Entry Requirements** Year 10-11 with from 1-5 years' experience and, in some cases, a basic vocational/para-professional certificate.

**Activities include** receiving, storing, recording and distributing supplies, material and equipment; and taking inventories, estimating future requirements, maintaining records, pricing and requisitioning stock.

4033-A      STORES CLERK

Receives stores, orders and issues supplies and merchandise and keeps records.

Counts and sorts incoming articles to verify receipt of items on requisitions or invoices, and examines them for conformity with specifications. Stores articles in containers or bins or on shelves, according to identifying information such as style, size or type. Fills orders or issues supplies from stock. Prepares inventories and requisitions material to fill incoming

orders. Compiles reports on use of stock-handling equipment, adjustment of inventory counts and stock records, spoilage or damage to stock, location changes and refusal of shipments.

May be designated according to type of stock handled or location, e.g.

- Stock Clerk, Pharmaceuticals  
Stock Clerk, Machine Shop

Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: T2m E5y
HC: CRA	RQ:
<i>Materials</i>	
SM: D1 T2	EQ:
<i>Functions</i>	
MA: I2 P2 D2 R3 M3 L2	
PA: S2 W2 E2	SA: S1 I2
<i>Context</i>	
EC: L1	TC: A1 I2 T1
SS: 4	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 913

4033-B PURCHASING OFFICER  
Procurement Clerk; Supply Clerk

Compiles information and records to prepare purchase orders for procurement of material for industrial, government or other establishments.

Verifies nomenclature and specialisations of purchase requests. Searches inventory records or warehouse to determine if material is on hand in sufficient quantity. Consults catalogues to obtain prices and specifications. Writes or types purchase order and sends copies to supplier and originating department. Compiles records of items purchased or transferred between departments, prices, deliveries and inventories. Confers with suppliers to determine reasons for late deliveries.

May compare prices, specifications and delivery dates and award contract to bidders or place orders with salesperson or mail-order firm. May compute total cost of items purchased, using calculating machine. May classify priorities according to regulations. May verify bills from suppliers with bids or purchase orders.

Job Content Factors

<i>Workers</i>	
FP: GE10-11y PSP1y(PPC) / (B) or FP: GE10-11y	IP: T1y IP: T3m E1y
HC: CIR	RQ:
<i>Materials</i>	
SM: D1 T2	EQ:
<i>Functions</i>	
MA: I2 P2 D2 R3 M3 L2	
PA: S1 E1	SA: S2 L2 I2 B2 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 4	SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: Many &

4033-C WARRANTY CLERK

Reviews claims and examines parts received from dealers or individuals, requesting reimbursement for defective items under warranty.

Reads claim forms to ascertain that adequate information is given, and that amount of labour claimed for changing or repairing parts is reasonable. Completes reports, telephones dealer for additional information or returns forms to dealer for completion. Prepares reports to summarise number and types of defects as shown on claims. Inspects parts to determine whether or not claims should be allowed. Prepares reimbursement document for payment of claims and submits them for approval.

May use mechanised processes to perform duties of the position.

Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: T2w E5y
HC: CRI	RQ:
<i>Materials</i>	
SM: D1 T2	EQ:
<i>Functions</i>	
MA: I2 A2 D2 R3 L2	
PA: H2 S2 W2 E1	SA: S2 L2
<i>Context</i>	
EC: L1	TC: A1
SS: 3	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many &

4033-D TALLY CLERK  
Checker (Clerical)

Records number of units of material, products or other articles received, transferred or produced, performing any combination of the following duties.

Observes and counts material or records information called out by other worker. Records number and kind of defects on unsatisfactory units, for quality control purposes. Prepares, signs and attaches tally sheets to items checked. Examines containers to ensure they are filled to specified level and records quantity. Marks containers to identify type, quality and quantity.

May stack boxes for closure and sealing. May be concerned with tallying a specific item; may be designated, e.g.

- Tally Clerk, Timber
- Blooming-Mill Recorder
- Checker, Agricultural Produce
- Open Hearth-Pit Recorder
- Oxygen Furnace-Pit Recorder
- Slabbing-Mill Recorder
- Soaking-Pit Recorder
- Structural-Mill Recorder
- Tally Clerk, Steel Mill; Recorder, Steel Mill

Job Content Factors

<i>Workers</i>	
FP: GE10-11y	IP: T1-3m E1-2y
HC: CRS	RQ:
<i>Materials</i>	
SM: D1 T2	EQ: S2 K2
<i>Functions</i>	
MA: D2 R4 M3 L2	
PA: H2 S2 W2 E2	SA: S2 L2
<i>Context</i>	
EC: L4 C09	TC: A1 I2 R2
SS: 5	SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: Many &

4033-Z STOCK CLERKS AND RELATED  
OCCUPATIONS nec

This residual group covers stock clerks and related occupations not elsewhere classified in Unit Group 4033, e.g.

- Inventory Clerk
- Mail Order Clerk
- Parts Lister
- Properties Custodian
- Stock Records Clerk
- Tool-Crib Attendant
- Production Supply Clerk
- Powder Magazine Attendant

4034 WEIGHERS

This unit group covers occupation primarily concerned with weighing materials, products and vehicles, and keeping relevant records.

Entry Requirements Year 9-10 plus up to one year's related work experience.

**Activities include** operating a weighbridge or platform and recording gross and net weight; weighing material or components on balance, platform or floor scales for various production processes; keeping records of material weighed; using balance scales in food or drug production and recording information; weighing of animals, carcasses and other items not elsewhere classified.

**4034-A            LICENSED WEIGHER**

Weights truckloads of material, such as gravel, cinder blocks and fill to determine weight of load contents.

Moves levers and weights on scale-bar of platform scale and reads indicators to determine gross weight of vehicle and load. Subtracts weight of vehicle from gross weight to obtain net weight of vehicle load. Records weight and nature of contents to compute payment and issues advice of weights.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE9y	IP: T1w E(v)
HC: RC	RQ: S1
<i>Materials</i>	
SM: D1 T2	EQ: P2 S2 K2
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 S2 W2 E1	SA: S2 L2 I1
<i>Context</i>	
EC: L4	TC: A1
SS: 3	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

**4034-B            WEIGHER, PRODUCTION**  
**Weigher, Counter**

Weights products or quantities of material, or computes number of small parts for production process, using balance scale, platform or floor scales, or electronic controlled scales and calculating machine where necessary.

Selects material from storage or accepts items in production process, places on scale, manipulates balance or reads amounts calibrated. Records weights and variations.

May move or arrange transfer of items to next stage of production. May verify accuracy of scales and make minor adjustments.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE9-10y	IP: T1w E1y
HC: RCI	RQ:
<i>Materials</i>	
SM: D1 T2	EQ: S2 N2
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 H1 S2 W2 E3	SA: S2 L2
<i>Context</i>	
EC: L1	TC: A1 I2 R2
SS: 3	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

**4034-Z            WEAHERS nec**

This residual group covers weighing occupations not elsewhere classified in Unit Group 4034, such as the weighing of livestock in saleyards, in lots or separately; or weighing goods prior to, or in, the shipping or transportation process, e.g.

    Weigher, Drug and Toilet Goods

    Weigher, Livestock                      Weigher, Carcass

MINOR GROUP 404  
LIBRARY/FILE CLERKS

Library/File Clerks are classified in the following unit groups.

- 4040
- Supervisors/Library, File Clerks
- 4041
- Library and File Clerks
- 4042
- Correspondence Clerical Occupations

4040 SUPERVISORS, LIBRARY/FILE CLERKS

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers in libraries and offices.

**Entry Requirements** Year 10-12 with 2-5 years' related work experience and, in some cases, an associate diploma/diploma in library studies.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN; training new staff; over-sighting and assisting with classifying; issuing and lending library material; the composition of correspondence, reports and other data; and the filing, storage and recording of this information.

*Related Occupation*

Occupation 2133-A : Library Technician

4040-A

SUPERVISOR, LIBRARY AND FILE CLERKS

Supervisor, File Clerks; Supervisor, Library Attendants

Supervises and co-ordinates activities of workers engaged in recording, classifying and filing publications, correspondence and other related data in libraries and offices.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

Job Content Factors

<i>Workers</i>	
FP: GE10-11y PSP	IP: T2m E2-5y
or FP: GE11-12y PSP2-3y(Dip) / (Adip)	IP: E2y
HC: CES	RQ:
<i>Materials</i>	
SM: D1 P2 T2	EQ: K2
<i>Functions</i>	
MA: I2 A2 P1 D2 R2 M3 L2	
PA: S2 W2 E1	SA: S2 L2 I2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 6	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: Many

4040-B

SUPERVISOR, CORRESPONDENCE CLERKS AND RELATED OCCUPATIONS

Supervisor, Correspondence Clerks

Supervises and co-ordinates file and correspondence clerks and related workers, such as those who supervise and co-ordinate activities of workers engaged in preparing correspondence and reports.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

Job Content Factors

<i>Workers</i>	
FP: GE10-11y	IP: T2m E2-5y
HC: CES	RQ: U2
<i>Materials</i>	
SM: D1 P2	EQ:
<i>Functions</i>	
MA: I2 P1 D2 R2 M3 L2	
PA: S2 W2 E1	SA: S2 L2 I2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1
SS: 6	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: Many

4041 LIBRARY AND FILE CLERKS

This unit group covers clerical occupations concerned with recording, classifying and filing

publications, correspondence and other material in offices and libraries.

Entry Requirements Year 10-11.

Activities include lending or issuing books, films and recordings; searching for and compiling information; issuing files; updating library catalogues, file indexes and records; and examining, sorting and filing correspondence and other data.

Related Occupations

Unit Group 2133 : Library Technicians

4041-A LIBRARY ATTENDANT  
Library Assistant

Compiles records, sorts and shelves books and issues and receives library materials, such as books, films and tapes performing any combination of the following duties.

Issues books to patrons, writes identification data and due-in date on cards or uses photographic record-keeping device. Inspects returned books for damage, verifies due date and computes and receives overdue fines. Reviews records to compile list of overdue books and sends overdue notices to borrowers. Sorts books, publications and other items, such as tapes and films, according to classification code. Returns them to shelves, files or other designated storage areas. Examines material on shelves to verify accuracy of placement. Locates and retrieves books and publications for patrons. Issues borrower's identification card according to system. Answers straightforward telephone inquiries and queries from patrons in library, referring unanswered questions and persons requiring further assistance to librarian. Makes minor repairs to books, using mending tape, paste and brush.

May clip pre-selected articles and circulates to interested persons. May file clipped articles. May store, issue and lend motion picture films, slides or recordings used for training, entertainment or educational purposes. May be designated according to type of library, department or task performed, e.g.

- Branch Library Attendant
- Library Attendant, Art Department
- Library Attendant, Audio-Visual
- Library Attendant, Book Return
- Library Attendant, Braille and Talking Books
- Library Attendant, Films and Recordings
- Mobile Library Attendant

Job Content Factors	
Workers	
FP: GE11y	IP: T6m
HC: CAS	RQ:
Materials	
SM: D1 P2	EQ: M2 W2
Functions	
MA: D2 R3 L2	
PA: U2 H1 S2 W2 E2	SA: S2 L2 I2
Context	
EC: L1	TC: A1 I2 R2
SS: 2	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 82/825

4041-B FILE AND CLASSIFICATION CLERK  
Registry Clerk

Classifies, files and records papers and searches documents and other data to supply written information from files.

Classifies material and assigns code when classification is not readily discernible. Labels jackets or other file containers by hand, or using typewriter. Disposes of obsolete files according to established policies. Keeps diary of material to be withdrawn, distributed or sent to document destruction centre.

Records serially-numbered documents, such as important agreements and sensitive documents of limited circulation to maintain custody and control. Reviews files to insert additional data or to locate and supply written and oral information.

Job Content Factors	
Workers	
FP: GE11y	IP: T6m
HC: CSI	RQ: U2
Materials	
SM: D1 I2	EQ: M2 W2
Functions	
MA: A2 D2 R3 L2	
PA: H1 S2 W1 E2	SA: S2 L2 I2
Context	
EC: L1	TC: A1 R2 T2
SS: 3	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

4041-C TAPE LIBRARIAN  
Computer-Tape Librarian

Classifies, catalogues and maintains library of reels of magnetic or punched paper tape or decks of punch cards used for electronic data processing and magnetic disks.

Classifies and catalogues material according to content, purpose of program, routine and date on which generated. Allocates numbers according to installation conventions. Prepares index cards for file references. Stores materials and records according to installation conventions. Prepares reference index. Stores materials and records according to classification and catalogue number. Issues materials and keeps charge-out records. Inspects returned tapes or cards and notifies supervisor if worn or damaged. Duplicates material for multiple distribution. Prepares documents for franking and mailing. Performs physical maintenance of tapes such as testing for errors and cleaning.

May keep files of program developmental records and operating instructions.

Job Content Factors	
Workers	
FP: GE10-11y	IP: T4w
HC: CI	RQ:
Materials	
SM: D1	EQ: K2
Functions	
MA: P2 D2 R4 M3 L3	
PA: H2 S2 W2 E2	SA: S1
Context	
EC: L1	TC: A1 I1 R2 T2
SS: 3	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

4041-D FILE CLERK

Files papers, documents and other data according to subject matter or other filing system.

Sorts cards, correspondence, invoices, receipts, photographs and other material according to filing system. Places material in specified filing cabinets, drawers or cases. Locates and removes material from files when requested. Keeps records of material removed. Stamps material received, traces missing file folders and writes or types indexing information on folders. Enters data on records.

May be designated according to subject matter filed, e.g.

Change-of-Address Clerk      File Clerk, Correspondence  
File Clerk, Drawings      File Clerk, Maps and Plans

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y	IP: T4w
HC: CRS	RQ:
<b>Materials</b>	
SM: D1 T2	EQ:
<b>Functions</b>	
MA: I2 D2 R4 L2	
PA: H1 S2 W2 E1	SA: S2 L2
<b>Context</b>	
EC: L1	TC: A1 R1
SS: 3	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

## 4042 CORRESPONDENCE CLERICAL OCCUPATIONS

This unit group covers occupations concerned with preparing and composing correspondence.

**Entry Requirements** Year 10-12 with up to one year's related work experience.

**Activities include** making records; examining documents to obtain, verify and record information; and recording, classifying and corresponding in various ways with persons concerned.

### 4042-A CIRCULATION REPRESENTATIVE

Compiles records concerned with city or mail-order distribution of newspapers to subscribers, carriers or dealers and adjusts complaints.

Examines delivery tickets and records number of newspapers delivered to each area of circulation. Corrects errors in circulation records. Receives telephoned and written complaints from subscribers and requests newsagents or sub agents to take corrective action.

**Job Content Factors**

<b>Workers</b>	
FP: GE10-12y	IP: T3-6m E0-1y
HC: CEI	RQ: U2
<b>Materials</b>	
SM: D1	EQ:
<b>Functions</b>	
MA: I2 D2 R4 M3 L2	
PA: S1 E1	SA: S1 I2
<b>Context</b>	
EC: L1	TC: A1 R2
SS: 4	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 2642

### 4042-B METER RECORDS CLERK

Keeps records concerning servicing, inspecting and installing of electric or gas meters.

Enters on history cards, data such as name and address of customer, size and type of meter, and dates of servicing, inspecting, installing or disconnecting meters. Supplies meter repair and maintenance workers, accounting departments and customers with information from files as requested. Receives orders for meter servicing, and prepares work orders. Receives cash for reconnection services.

May match permits with appropriate work orders and verify completeness of information. May make periodic reports of meters set, removed or changed.

**Job Content Factors**

<b>Workers</b>	
FP: GE11y	IP: T1w E1y
HC: CE	RQ:
<b>Materials</b>	
SM: D1	EQ: K2
<b>Functions</b>	
MA: D2 R4 L2	
PA: S1 E1	SA: S2 L2
<b>Context</b>	
EC: L1	TC: A1 R2
SS: 3	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 34/37

### 4042-C CORRESPONDENCE CLERK Claims and Credit Clerk; Circulation Clerk

Composes letters in reply to correspondence concerning items, such as requests for information and merchandise, damage claims, credit information, delinquent accounts, incorrect billing and unsatisfactory service.

Reads incoming correspondence and gathers data to formulate reply or routes correspondence to individual or department concerned, for investigation or reply. Compiles letters, dictates replies or selects and completes form letters.

May keep files of correspondence sent, received or requiring further action. May perform special duties and be designated accordingly, e.g.

Claims Clerk, Lost or Damaged Goods

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y	IP: T1-2m E6-12m
HC: CES	RQ:
<b>Materials</b>	
SM: D1 P2	EQ: K2
<b>Functions</b>	
MA: I2 D2 R2 L2	
PA: S1 E1	SA: S2 L2 I2
<b>Context</b>	
EC: L1	TC: A1
SS: 2	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

4042-D      SALES CLERK

Reviews records of accounts to determine which customers should be sent follow-up or advertising literature.

Telephones customers or types form letters to solicit new business. Checks inactive accounts and investigates reasons for inactivity. Keeps records of customer purchases, entering type and amount of sale on card index or other form.

Job Content Factors

Workers	
FP: GE10-12y	IP: T6w E1y
HC: CES	RQ:
Materials	
SM: D1 P2	EQ: K2
Functions	
MA: P2 D2 R3 M3 L2	
PA: P2 S1 E1	SA: S2 L2 I1
Context	
EC: L1	TC: A1
SS: 3	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: Many

4042-E      SORTER (CLERICAL)

Sorts printed material into specified sequence or groups for filing, mailing, copying data and preparing reports.

Sorts items such as forms, cheques, receipts, bills, sales tickets and correspondence according to addresses, codes, quantity, class or other prescribed methods.

May keep record of number of items filed, mailed or sorted.  
May be designated according to items sorted, e.g.  
Bill Sorter                      Sales-Slip Sorter  
Ticket Sorter

Job Content Factors

Workers	
FP: GE10-11y	IP: T1m
HC: CR	RQ:
Materials	
SM: D1	EQ: M2 W2
Functions	
MA: D3 R4 L2	
PA: H1 S2 W2 E2	SA: S2 L2
Context	
EC: L1	TC: A1 R1
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: Many

4042-Z      CORRESPONDENCE CLERICAL  
OCCUPATIONS nec

This residual group covers other correspondence clerks, not elsewhere classified in Unit Group 4042, e.g. those who compile records, examine books, newspapers and documents to obtain, verify and record information, and to classify and file correspondence, publications and other data and are designated accordingly,

Recording Clerk                      Card Filer  
Docket Clerk

## MINOR GROUP 405 RECEPTION/MAIL CLERKS

Reception/Mail Clerks are classified in the following unit groups.

- 4050 Supervisors, Reception/Mail Clerks
- 4051 Receptionist Clerks
- 4052 Postal Service Occupations
- 4053 Telephonists and Phonogram Operators
- 4054 Messengers

### 4050 SUPERVISORS, RECEPTION/MAIL CLERKS

This unit group covers occupations concerned with supervising and co-ordinating personnel in reception, information, mail and message distributing occupations.

**Entry Requirements** Year 10-12 with 2-5 years' related work experience.

**Activities include** receiving persons in offices or business establishments; keeping records of attendance and other related clerical duties; providing customers, clients or members of the public with various information; and providing and seeking information to and from hospital patients.

#### 4050-A TELEPHONIST SUPERVISOR Supervisor, Telephonists

Supervises and co-ordinates activities of workers engaged in operating public and private telephone switchboards to relay incoming, inter-office and outgoing calls, in computing toll charges, supplying information and keeping related records.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

##### *Job Content Factors*

###### *Workers*

FP: GE10-11y	IP: T3m E2-3y
HC: CES	RQ:

###### *Materials*

SM: D2 P1 T2	EQ: K1
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###### *Functions*

MA: P1 D2 R3 L2	SA: S2 L2 I1 B1 R3-4
PA: P2 S2 W2 E1	

###### *Context*

EC: L1 C04	TC: A1 I1
SS: 6	SC: 8 (vy)

LMS: NA (0 %SE)

ASIC: Many

#### 4050-B SUPERVISOR, POSTAL Senior Mail Officer; Postmaster/mistress

Supervises and co-ordinates the activities of mail processing staff engaged in sorting, processing, bagging and dispatching mail, and directs the work flow of mail in a mail handling facility.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

##### *Job Content Factors*

###### *Workers*

FP: GE10-12y	IP: T6m E5y
HC: CEI	RQ:

###### *Materials*

SM: D2 P1 T2	EQ: M2 W2
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###### *Functions*

MA: I2 P1 D2 R3 M3 L2	SA: S2 L2 B1 R3-4
PA: U2 H2 S2 W2 E2	

###### *Context*

EC: L1	TC: A1 I1 T1
SS: 6	SC: 8 (vy)

LMS: NA (0 %SE)

ASIC: 56

### 4051 RECEPTIONIST CLERKS

This unit group covers occupations concerned with receiving clients and providing general information.

**Entry Requirements** Year 10-11 plus up to 2 years' related work experience or a para-professional certificate.

**Activities include** making appointments, providing information and answering inquiries by telephone or in person.

*Related Occupations*

Minor Group 400 : Stenographic and Typing Occupations

**4051-A RECEPTIONIST**  
**Appointment Clerk; Receptionist Clerk**

Greets people entering or phoning an office or establishment, ascertains their needs and responds with appropriate advice and action, performing any combination of the following duties.

Answers inquiries and provides information on activities carried on inside or outside establishment. Records name, time of call, nature of business and person called upon. Arranges appointments between employer and clients, customers or patients by mail, telephone or in person. Keeps records of appointments in an appointment book and may telephone clients to remind them of appointments. Advises hotel or motel guests of services, such as laundry and recreational facilities and places of interest. Advises on and arranges reservation of accommodation.

May prepare and send out accounts and receive and record payments. May perform a variety of clerical duties, such as typing, filing and collecting and distributing mail and messages. May perform receptionist duties in a variety of offices and be designated accordingly, e.g.

- Receptionist, Beauty Salon
- Receptionist, Business
- Receptionist, Doctor's Surgery
- Receptionist, Hotel
- Receptionist, Advertising Agency

inquiries regarding departures, arrivals, stops and destinations of scheduled vehicles in transport organisations. Calls officials or employers to information desk.

May operate public address system and answer telephones to provide information. May provide information in a particular establishment and be designated accordingly, e.g.  
Information Clerk, Department Store  
Information Clerk, Transport

*Job Content Factors*

<i>Workers</i>	
FP: GE10-11y	IP: T1y E1y
HC: SCE	RQ: Q2 D2
<i>Materials</i>	
SM: D2 P1	EQ: M2 K2
<i>Functions</i>	
MA: D3 R3 L2	
PA: S1 E1	SA: A2 S2 I1
<i>Context</i>	
EC: L1	TC: A1 R1
SS: 4	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: Many

**4051-C HOSPITAL ADMITTING CLERK**

Provides incoming patient or representative with form to record information required for admission and calculates account before discharge of patient.

Gives form to patient to record name, address, age, religion, person to notify in case of emergency and health benefits insurance. Sends brochures to patient or representative explaining hospital regulations, such as visiting hours, payment of accounts and schedule of charges. Types admitting record and sends it to designated department. Works out account and sends it to accounts department. On discharge of patient, the medical history is returned to admitting clerk and then to medical records.

*Job Content Factors*

<i>Workers</i>	
FP: GE11y	IP: T6m E0-2y
HC: SCE	RQ: Q2 D2
<i>Materials</i>	
SM: D2 P1	EQ: M2
<i>Functions</i>	
MA: D2 R3 L2	
PA: P1 S1 E1	SA: S1 L2 I1
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 3	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 81

*Job Content Factors*

<i>Workers</i>	
FP: GE10-11y PSP1-2y(PPC) or FP: GE10-11y	IP: T1m IP: T1m E1y
HC: SCE	RQ: Q2 D2
<i>Materials</i>	
SM: D2 P1 T2	EQ: M2 K1
<i>Functions</i>	
MA: D2 R3 M3 L2	
PA: P1 S1 E1	SA: A2 S2 I1
<i>Context</i>	
EC: L1	TC: A1 R2
SS: 4	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: Many

**4051-B INFORMATION CLERK**  
**Inquiry Officer**

Answers inquiries from public or customers, performing any combination of the following duties.

Informs persons of availability and location of goods and services available in an establishment. Tells customers where merchandise is located in retail establishment. Answers

**4052 POSTAL SERVICE OCCUPATIONS**

This unit group covers occupations concerned with the general provision of postal services within establishments such as mail exchanges, mail processing centres and post offices.

**Entry Requirements Year 8-12.**

**Activities include** selling postal items; giving advice on postal matters to the public; and sorting, delivering, loading and unloading mail.

**Related Occupations**

Unit Group 4053

: Telephonists and Phonogram Operators

**4052-A POSTAL CLERK**

Carries out clerical functions concerned with the sale and marketing of postal goods and services in an official post office, performing any combination of the following duties.

Conducts and records postal transactions at the public counter of a post office. Sells stamps, postal stationery and money orders. Registers mail and computes mailing costs of letters, parcels and packets. Advises on postal services, receives postal and bank payments and telephone account payments. Records daily transactions. Undertakes manipulative telegraph duties. Prepares pay and allowance sheets. Undertakes accounting and clerical tasks associated with requisitions and remittances. Oversees other staff, maintains staff and leave records. Oversees maintenance of bicycles and motor vehicles and maintains associated clerical records. Oversees delivery of telegrams and other speed mail items. Provides advice and services on behalf of government departments or agencies, such as social security matters and banking transactions.

**Job Content Factors**

<b>Workers</b>	
FP: GE10-12y	IP: T6-12m
HC: CSR	RQ:
<b>Materials</b>	
SM: D1 P2 T2	EQ: M2
<b>Functions</b>	
MA: D2 R3 M3 L3	
PA: S2 W2 E2	SA: S2 L2 I1
<b>Context</b>	
EC: L1	TC: A1
SS: 4	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 56

**4052-B MAIL OFFICER**

Carries out postal service functions in a mail centre by receiving, sorting and dispatching mail, performing any combination of the following duties.

Picks up and scrutinises incoming mail to ensure that address is legible and complete, sufficient postage has been paid, parcels are in condition for delivery and postal regulations have not been contravened. Sorts incoming and outgoing mail, racks or pigeon-holes according to destination. Segregates items requiring special handling owing to damage, insufficient postage, illegible and incomplete address or suspected contravention of postal regulations. Transfers mail from primary to final sorting areas using wheeled equipment. Ties incoming sorted mail in bundles, operates mail handling plant and equipment, such as letter preparation lines, letter indexing desks and letter sorting machines. Receives and assesses charges on bulk lodgement of postal articles.

May load and unload mail vans and stack mail bags.

**Job Content Factors**

<b>Workers</b>	
FP: GE8-10y	IP: T6m
HC: RC	RQ:

**Materials**

SM: D2 T1	EQ: M2 W2
<b>Functions</b>	
MA: D3 R4 M3 L2	
PA: U2 H1 W1 E3	SA: S2 L2
<b>Context</b>	
EC: L1	TC: A1 I1 R2 T2
SS: 4	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 56

**4052-C POSTAL OFFICER**

Performs a range of postal service functions in a post office, including some or all of the following duties.

Receives letters, packets and parcels and sells postage stamps and postal stationery. Accepts telegrams and registered mail. Accepts payment of accounts. Advises customers on postal services. Undertakes some outdoor delivery work. Receives, checks and processes inward mail. Sorts mail to private boxes. Undertakes minor clerical work. Clears and counts public telephone collections. Maintains mail statistics.

May use metal detection device.

**Job Content Factors**

<b>Workers</b>	
FP: GE8-10y	IP: T4-6w
HC: CSR	RQ:
<b>Materials</b>	
SM: D1 P2 T2	EQ: M2
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: U2 H1 W1 E2	SA: S2 L2 I1
<b>Context</b>	
EC: L1	TC: A1
SS: 4	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 56

**4052-D POSTMAN/WOMAN**

Sorts and delivers mail and parcels appropriate to an allocated route.

Sorts mail for delivery to streets in designated area. Delivers mail by foot or bicycle or motor scooter. Collects money for cash on delivery packages. Records deliveries of registered mail. Performs other mail-handling duties at post office.

**Job Content Factors**

<b>Workers</b>	
FP: GE8-9y	IP: T3m
HC: RCS	RQ: L1 D1
<b>Materials</b>	
SM: D1 P2	EQ: V2 W2
<b>Functions</b>	
MA: P2 D3 R4 L3	
PA: H1 W1 E3	SA: S2 L2 I1
<b>Context</b>	
EC: L3 C09	TC: A1 I2 T2
SS: 4	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 56

### 4053 TELEPHONISTS AND PHONOGRAM OPERATORS

This unit group covers occupations concerned with operating public and private telephone switchboards to relay incoming and outgoing calls.

**Entry Requirements** Year 10 and up to one year's related work experience.

**Activities include** operating telephone switchboards; relaying incoming, inter-office and outgoing calls; giving information; determining charges and keeping related records; and relaying telegrams.

#### 4053-A TELEPHONIST, TELECOMMUNICATIONS

Operates telephone switchboard to assist subscribers in establishing local or long-distance telephone connections.

Manipulates keys, plugs or buttons according to type of board to make connections. Consults chart to determine charges for public telephone calls and requests coin deposits for long-distance calls. Gives assistance to subscribers who have difficulty with local numbers and informs them of area code numbers. Takes special action in cases of emergency, such as fire, crime or accident.

May specialise in aspects, such as dealing with subscriber difficulties and faults, service sampling to monitor efficiency of system, or inquiries about national traffic, international costs and time delays.

##### Job Content Factors

###### Workers

FP: GE10y IP: T5w  
HC: SCE RQ: A1

###### Materials

SM: D2 P1 T2 EQ: K1

###### Functions

MA: D2 R4 L2  
PA: P2 S1 E1 SA: S1 I1

###### Context

EC: L1 C04 TC: A1 I1 R1  
SS: 2 SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 56

#### 4053-B TELEPHONIST, SWITCHBOARD Telephone Operator; Switchboard Operator

Connects telephone calls at an office switchboard to relay incoming, outgoing and inter-office calls.

Operates office switchboard by manipulating keys, plugs or buttons according to the type of board. Puts calls through to appropriate persons on staff. Gives information to outside callers and takes messages.

May keep records of special calls, trunk calls and telegrams. May carry out some typing, filing and reception duties.

##### Job Content Factors

###### Workers

FP: GE10y IP: T3-10w E0-6m  
HC: SC RQ:

###### Materials

SM: D2 P1 EQ: K1

###### Functions

MA: D3 R4 L2  
PA: P2 S1 E1 SA: S1 I1

##### Context

EC: L1 TC: A1 R1  
SS: 2 SC: 6 (vy)

LMS: NA (0 %SE)

ASIC: 56

#### 4053-C TELEPHONE ANSWERING-SERVICE OPERATOR

Provides telephone-answering service for clients, such as doctors, lawyers and business executives.

Operates telephone switchboard to provide answering service for clients. Greets caller and announces name or phone number of client's office or establishment. Records and delivers messages, furnishes information, accepts orders and relays calls. Places telephone calls at request of client. Locates client in emergencies. Date stamps and files messages.

##### Job Content Factors

###### Workers

FP: GE10y IP: T1y E6m  
HC: CS RQ:

###### Materials

SM: D1 P2 EQ: K1

###### Functions

MA: D2 R3 L2  
PA: P2 S1 E1 SA: S1 I1

###### Context

EC: L1 TC: A1 I1 R2  
SS: 3 SC: 6 (vy)

LMS: NA (0 %SE)

ASIC: 56

#### 4053-D PHONOGRAM OPERATOR

Receives and relays telegram by telephone.

Records message to be sent, in writing or by using typewriter. Suggests rewording, if necessary, for clarity and conciseness. Quotes rates and counts words and figures to determine charges to subscriber. Calls addressee and reads message.

##### Job Content Factors

###### Workers

FP: GE10y IP: T5w E0-1y  
HC: CS RQ:

###### Materials

SM: D1 P2 EQ: K1

###### Functions

MA: D2 R4 M3 L2  
PA: P1 S1 E1 SA: S1 I1

###### Context

EC: L1 TC: A1 R2 T2  
SS: 3 SC: 6 (vy)

LMS: NA (0 %SE)

ASIC: 56

4054 MESSENGERS

This unit group covers occupations concerned with running errands, sorting, delivering and collecting messages, papers, packages and letters.

**Entry Requirements** Year 8-10.

**Activities include** collecting, sorting and delivering items and messages; accepting payment for services; riding motor cycles, scooters or bicycles; and driving courier cars and vans.

*Related Occupations*

Unit Group 4052 : Postal Service Occupations

4054-A MESSENGER

Delivers messages and items, such as securities, documents, advertising copy, proofs, parcels and letters to various departments within an establishment or to other locations.

Collects, sorts and delivers items, travelling either by foot, bicycle, public transport, motor cycle or other motor vehicle.

May be required to collect money from customers for cash-on-delivery orders and may also keep records of items received and delivered. May work for a variety of business organisations, such as printing and publishing firms, advertising agencies, retail stores and courier services. May be concerned with a particular type of messenger activity and be designated accordingly, e.g.

- Courier
- Medical Courier
- Confidential Messenger

*Job Content Factors*

<i>Workers</i>	
FP: GE8-10y	IP: T2w
HC: RCS	RQ: L1 D2
<i>Materials</i>	
SM: D2 P2 T1	EQ: V1 W2
<i>Functions</i>	
MA: D2 R4 M3 L3	
PA: C1 H2 S2 W2 E2	SA: S1 I1
<i>Context</i>	
EC: L3 C09	TC: A1 I2 T1
SS: 3	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: Many

**MINOR GROUP 409**  
**OTHER CLERICAL OCCUPATIONS**

- Other Clerical Occupations are classified in the following unit groups.
- 4090 Supervisors, Other Clerical Occupations
  - 4091 Personnel Clerks
  - 4092 Clerical Assistants (Other)
  - 4099 Other Clerical Occupations

**4090 SUPERVISORS, OTHER CLERICAL OCCUPATIONS**

This unit group covers occupations concerned with supervising staff working on personnel records and other general and miscellaneous clerical occupations.

**Entry Requirements** Year 10 plus related work experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN; supervising all aspects of the particular type of clerical work; training staff; co-ordinating work flow; engaging and discharging staff.

*Related Occupations*

Occupation 4139-H : Ticket Sales Person

**4090-Z SUPERVISORS, OTHER CLERICAL  
OCCUPATIONS**

This residual group covers clerical supervisory occupations not elsewhere classified in Unit Group 4090, e.g. the

supervising and co-ordinating of activities of workers engaged in soliciting and receiving newspaper advertisements, and interviewing the public on various topics,  
Supervisor, Advertising Clerks  
Supervisor, Public Opinion Poll Interviewers

**4091 PERSONNEL CLERKS**

This unit group covers clerical occupations concerned with compiling and maintaining personnel information.

**Entry Requirements** Year 11-12 with up to one year's related work experience.

**Activities include** maintaining personnel files; processing employment applications and handling routine correspondence; and recording information for use by management in regard to staff recruitment, training, promotions attendance, retirement, termination and superannuation.

*Related Occupations*

Unit Group 1032 : Personnel and Related Officers  
Unit Group 1025 : Personnel and Industrial Relations Management Occupations

4091-A

PERSONNEL RECORDS CLERK  
Employment Records Clerk; Personnel  
Support Clerk

Compiles and keeps personnel records and processes applications for employment.

Performs routine clerical duties in support of personnel officers. Maintains company personnel files relating to job history, superannuation, absences, transfer, promotion, salary and supervisor reports. Handles routine personnel correspondence.

May arrange for security passes and identification. May specialise in a particular aspect of personnel records and be designated accordingly, e.g.  
Personnel Records Clerk, Absences

Personnel Records Clerk, Salaries

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE11-12y	IP: T1-2m E0-1y
HC: CSE	RQ:
<i>Materials</i>	
SM: D1 P2	EQ:
<i>Functions</i>	
MA: I2 D2 R3 L2	
PA: H2 S1 E1	SA: S2 L2
<i>Context</i>	
EC: L1	TC: A1 R2
SS: 5	SC: 7 (vy)
LMS: NA (? %SE)	ASIC: Many

4092

CLERICAL ASSISTANTS (OTHER)

This unit group covers clerical assisting occupations not elsewhere classified in Major Group 40.

**Entry Requirements** Year 10-11.

**Activities include** performing a variety of office duties.

4092-Z

CLERICAL ASSISTANTS (OTHER) nec

Performs a variety of office duties as directed by other clerical and administrative staff.

Collects and distributes incoming and outgoing mail and other papers. Sorts documents and maintains filing system as required. Ensures maintenance of stock of stationery and other basic office requisites. Arranges for photocopying of documents and operates a photocopying machine as required. Receives and deals with initial inquiries.

4099

OTHER CLERICAL AND RELATED OCCUPATIONS

This residual unit group covers various clerical occupations that have not been classified within previously designated groups.

**Activities include** dispatching duties; relaying messages and information; reading meters; proof-reading; monitoring and marking information; title searching; assisting in legal matters; serving court orders; accepting advertising material; checking credit applications; and other various compiling, duplicating, photocopying, embossing, addressing, folding, inserting and recording tasks.

4099-A

GENERAL CLERK

Performs a wide range of clerical duties as directed by other clerical and administrative staff.

Prepares, transcribes, transfers and files information; records financial, investment and insurance transactions; schedules and dispatches goods, records materials; handles and distributes messages and undertakes other office work and related clerical duties as directed.

<i>Materials</i>	
SM: D1 T2	EQ: M2 K2 W2
<i>Functions</i>	
MA: D3 R3 M3 L2	
PA: S1 E1	SA: S2 L2 I1
<i>Context</i>	
EC: L1	TC: A1 R1
SS: 3	SC: 7 (vy)
LMS: 0 (? %SE)	ASIC: Many

4099-B

PROOF-READER

Reads typescript or proof of typed material to detect and mark for corrections any grammatical, typographical or compositional errors.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-11y	IP: T1-3m E0-2y
HC: CRI	RQ:

Places proof and copy side by side on desk and reads one sentence or paragraph at a time alternating between copy and proof, or follows original copy word for word as another person reads aloud. Marks proofs with pencils, using codes to indicate deviations from copy or to instruct printing machine operators to alter typographical details, such as indentation, margin, letter type, size and case. Discusses grammatical or compositional discrepancies in copy with initiator and obtains signature on copy to authorise change. Places marked proof in tray for corrected type. Writes initials, time and date on proof to indicate approval of corrections and authorise assembly of set type into final form for printing.

May correct on Visual Display Terminals. May specialise in reading copy aloud to proof-reader (who marks proof) and be designated accordingly, e.g.

Assistant Proof-Reader                      Copy Holder

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP2-3y(Adip) / (D) or FP: GE11-12y HC: CAS	IP: T2m IP: T1-3y E2-3y RQ:
<b>Materials</b>	
SM: D1 I2 P2	EQ: M2 K2
<b>Functions</b>	
MA: A2 D2 R3 L2 PA: S1 E1	SA: S1 I2
<b>Context</b>	
EC: L1 SS: 4	TC: A1 T2 SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 264

**4099-C CLASSIFIED ADVERTISING CLERK**

Accepts advertising copy from clients by mail, telephone or personal contact at the advertising reception area.

Checks copy to ensure correctness. Ascertains that names, numbers, prices and specific details are correct. Advises rates and cost of copy submitted. Advises on positioning in publication and loading costs involved. Maintains accurate filing system to facilitate processing of copy.

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y HC: CEA	IP: T2w E2-5y RQ:
<b>Materials</b>	
SM: D1 P2	EQ: M2 K1
<b>Functions</b>	
MA: D2 R3 M3 L2 PA: P1 S1 E1	SA: S1 I1
<b>Context</b>	
EC: L1 SS: 4	TC: A1 I1 R2 T1 SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 264/638

**4099-D TITLE SEARCHER**

Examines government land and other records to verify ownership and equity in property.

Lists details of properties to be investigated, visits titles office and searches records for appropriate property lot number, plan number and title number. Follows title claim to present owner and verifies whether any encumbrances exist. Attends stamp duty office and titles office for lodging of legal documents. Records information relevant to search or lodgement and advises law office or client.

May also perform searching of company and business names.

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y HC: CIS	IP: T1-2m RQ:
<b>Materials</b>	
SM: D1 P2	EQ: K2

<b>Functions</b>	
MA: I2 D2 R3 M3 L2 PA: P2 S1 E1	SA: S1 I2
<b>Context</b>	
EC: L1 SS: 4	TC: A1 R2 SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 711/63

**4099-E METER READER**

Reads electric, gas or water consumption meters, and records volume used by residential and commercial consumers.

Walks over established route, and takes readings of meter dials. Calculates amount due by customer and leaves account. Checks meters and connections for defects, damage, and unauthorised connections. Reports irregularities on forms, for necessary action by servicing department. Checks readings to locate abnormal consumption, and records reasons for fluctuations, if meter is changed. Checks constants (average individual customer consumption) on meter cards. Records changes when customers have moved without notification.

May drive a motor vehicle. May take applications for new service. May be concerned with reading a particular type of service meter and be designated accordingly, e.g.

Electric-Meter Reader                      Gas-Meter Reader  
Water-Meter Reader

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y HC: CRS	IP: T1w E2-3y RQ: L2
<b>Materials</b>	
SM: D1 T2	EQ:
<b>Functions</b>	
MA: D2 R4 M3 L3 PA: W1 E1	SA: S1 I1
<b>Context</b>	
EC: T2 L2 SS: 3	TC: A1 R1 SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 36/37 &

**4099-F PROCESS SERVER**

Serves court orders and processes, such as writs, subpoenas, summonses and divorce papers.

Receives documents to be served from clerk of courts or lawyer. Locates person named through personal inquiries and hands document to them. Records time and place of delivery for reference.

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y HC: CIE	IP: T1w E2-5y RQ: L2 S1 Q1
<b>Materials</b>	
SM: D1 P2	EQ:
<b>Functions</b>	
MA: P1 D2 R4 L3 PA: S2 W2 E1	SA: A2 S2 I1
<b>Context</b>	
EC: T1 L3 SS: 4	TC: A2 I1 T1 SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 637

**4099-G LAW CLERK  
Legal Clerk**

Performs routine clerical work associated with a legal practice.

Assists in the areas of conveyancing, probate and common law and in drafting various contracts by searching titles for verification, examining contracts for terms of agreement and obtains information relative to the contract deed to enable the solicitor to proceed with finalisation. Assists the solicitor in proving the validity of a will, establishes tax due, fills out probate forms and lodges with probate office.

May attend settlements to finalise transfer. May assist in court or attend court offices dealing with documentation procedures. May attend calling over of court lists and similar related matters. May perform routine clerical work for one or more barristers and be designated accordingly, e.g.  
Barrister's Clerk

*Job Content Factors*

<i>Workers</i>	
FP: GE12y	IP: T1y
HC: CIS	RQ:
<i>Materials</i>	
SM: D1 I2 P2	EQ:
<i>Functions</i>	
MA: I2 A2 D2 R3 L2	
PA: S1 E1	SA: S1 I2

<i>Context</i>	
EC: L1	TC: A1
SS: 2	SC: 8 (vy)

LMS: NA (0 %SE)                      ASIC: 637/712  
**4099-Z                      CLERICAL AND RELATED  
                                 OCCUPATIONS nec**

This residual group covers miscellaneous clerical and related occupations not elsewhere classified in Unit Group 4099, e.g.  
Blueprint Machine Operator  
Broadcast Clerk  
Embossing Machine Operator  
Photoprint Checker  
Stamp Classifier  
Traffic Recorder  
Envelope Sealing and Imprinting Machine Tender

### 4993-2 CLERICAL AND RELATED OCCUPATIONS are

The Federal Group, more miscellaneous clerical and related occupations are classified in this Group. They include:

- Bookkeeper
- Business Machine Operator
- Business Clerk
- Employing Relations Officer
- Insurance Clerk
- Legal Clerk
- Legal Recorder
- Envelope Sealing and Shipping Machine Operator

#### Job Content Factors

Factor	Level
Knowledge	1-3
Skills	1-3
Abilities	1-3
Education	1-3
Experience	1-3
Training	1-3
Physical	1-3
Psychological	1-3
Language	1-3
Mathematics	1-3
Science	1-3
History	1-3
Geography	1-3
Art	1-3
Music	1-3
Health	1-3
Religion	1-3
Philosophy	1-3
Politics	1-3
Social Science	1-3
Law	1-3
Business	1-3
Industry	1-3
Transportation	1-3
Communication	1-3
Information	1-3
Technology	1-3
Environment	1-3
Energy	1-3
Materials	1-3
Manufacturing	1-3
Construction	1-3
Mining	1-3
Agriculture	1-3
Fishing	1-3
Forestry	1-3
Transportation	1-3
Communication	1-3
Information	1-3
Technology	1-3
Environment	1-3
Energy	1-3
Materials	1-3
Manufacturing	1-3
Construction	1-3
Mining	1-3
Agriculture	1-3
Fishing	1-3
Forestry	1-3

### 4993-3 CLASSIFIED ANSWERING CLERK

Accepts and answers calls from clients to whom telephone or personal contact is the primary method of communication.

Checks reply to answer correspondence. Assists with correspondence, including the preparation of letters and the distribution of mail. Answers questions and handles correspondence. May be required to perform processing of correspondence.

#### Job Content Factors

Factor	Level
Knowledge	1-3
Skills	1-3
Abilities	1-3
Education	1-3
Experience	1-3
Training	1-3
Physical	1-3
Psychological	1-3
Language	1-3
Mathematics	1-3
Science	1-3
History	1-3
Geography	1-3
Art	1-3
Music	1-3
Health	1-3
Religion	1-3
Philosophy	1-3
Politics	1-3
Social Science	1-3
Law	1-3
Business	1-3
Industry	1-3
Transportation	1-3
Communication	1-3
Information	1-3
Technology	1-3
Environment	1-3
Energy	1-3
Materials	1-3
Manufacturing	1-3
Construction	1-3
Mining	1-3
Agriculture	1-3
Fishing	1-3
Forestry	1-3

### 4993-4 TITLE SEARCHER

Examines government land and other records to verify ownership and equity in property.

Enter details of properties to be investigated, visits title office and searches records for appropriate property. Prepare and maintain title insurance policy. Follow title insurance policy to insure owner and verify whether any other title insurance policy is in effect. Prepare title insurance policy to insure owner and verify whether any other title insurance policy is in effect. Prepare title insurance policy to insure owner and verify whether any other title insurance policy is in effect.

May also perform searching of company and business names.

#### Job Content Factors

Factor	Level
Knowledge	1-3
Skills	1-3
Abilities	1-3
Education	1-3
Experience	1-3
Training	1-3
Physical	1-3
Psychological	1-3
Language	1-3
Mathematics	1-3
Science	1-3
History	1-3
Geography	1-3
Art	1-3
Music	1-3
Health	1-3
Religion	1-3
Philosophy	1-3
Politics	1-3
Social Science	1-3
Law	1-3
Business	1-3
Industry	1-3
Transportation	1-3
Communication	1-3
Information	1-3
Technology	1-3
Environment	1-3
Energy	1-3
Materials	1-3
Manufacturing	1-3
Construction	1-3
Mining	1-3
Agriculture	1-3
Fishing	1-3
Forestry	1-3

May attend settlements to finalize transfer. May assist in court or attend court officers dealing with documentation procedures. May attend closing over of court law and related matters. May perform routine clerical work for one or more partners and of designated accounting, e.g.,

Barren, Clerk

Job Content Factors

Factor

Level

Knowledge

Skills

Abilities

Education

Experience

Training

Physical

Psychological

Language

Mathematics

Science

History

Geography

Art

Music

Health

Religion

Philosophy

Politics

Social Science

Law

Business

Industry

Transportation

Communication

Information

Technology

Environment

Energy

Materials

Manufacturing

Construction

Mining

Agriculture

Fishing

Forestry

Transportation

Communication

Information

Technology

Environment

Energy

Materials

Manufacturing

Construction

Mining

Agriculture

Fishing

Forestry

Transportation

Communication

Information

Technology

Environment

Energy

Materials

Manufacturing

Construction

Mining

Agriculture

Fishing

Forestry

Transportation

Communication

Information

Technology

Environment

Energy

Materials

Manufacturing

Construction

Mining

Agriculture

## **MAJOR GROUP 41**

### **SALES OCCUPATIONS**

Sales Occupations are classified in the following minor groups.

- 410 Sales Supervision Occupations
- 411 Insurance and Real Estate Occupations
- 412 Sales Representative Occupations
- 413 Salespersons and Related Occupations

#### *Related Occupations*

- |                |                        |
|----------------|------------------------|
| Major Group 40 | : Clerical Occupations |
| Major Group 42 | : Service Occupations  |

# 41 SALES OCCUPATIONS

## 410 SALES SUPERVISION OCCUPATIONS

### 4100 SUPERVISORS, SALES

- 4100-A District Sales Manager (Insurance)
- 4100-B Field Supervisor (Insurance)
- 4100-C Manager, Real Estate Agents
- 4100-D Sales Supervisor (Retail/Wholesale Establishment)
- 4100-E Supervisor Manager (Retail/Wholesale Store)
- 4100-Z Supervisors, Sales nec

## 411 INSURANCE AND REAL ESTATE OCCUPATIONS

### 4110 INSURANCE BROKERS AND AGENTS

- 4110-A Insurance Broker
- 4110-B Insurance Inspector (Fire and General Insurance)
- 4110-C Life Assurance Representative
- 4110-Z Insurance Brokers and Agents nec

### 4111 REAL ESTATE AGENTS AND MANAGERS

- 4111-A Real Estate Agent
- 4111-B Property Manager (Real Estate)
- 4111-C Valuer (Real Estate)

## 412 SALES REPRESENTATIVE OCCUPATIONS

### 4120 SALES REPRESENTATIVES AND AGENTS (SPECIALIST TECHNICAL PRODUCTS)

- 4120-A Sales Representative (Chemical Products)
- 4120-B Sales Representative (EDP)
- 4120-C Sales Representative (Electronic Equipment, Except EDP)
- 4120-D Sales Representative (Industrial Machinery and Equipment)
- 4120-E Sales Representative (Machinery/Equipment)
- 4120-F Sales Representative (Medical and Dental Equipment and Supplies)
- 4120-Z Sales Representatives and Agents (Specialist Technical Products) nec

### 4121 SALES REPRESENTATIVES AND AGENTS (SERVICES)

- 4121-A Sales Representative (Advertising)
- 4121-B Sales Representative (Business Services)
- 4121-C Sales Representative (Freight Services)
- 4121-D Sales Representative (Printing)
- 4121-E Travel Agent
- 4121-Z Sales Representatives and Agents (Services) nec

### 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS)

- 4122-A Manufacturer's Agent
- 4122-B Sales Representative (Books/Paper Products)
- 4122-C Sales Representative (Builders' Hardware/Timber)
- 4122-D Sales Representative (Farm Properties/Supplies)
- 4122-E Sales Representative (Floor Coverings/Furniture)
- 4122-F Sales Representative (Food/Drink/Tobacco Products)
- 4122-G Sales Representative (Household Goods/Domestic Hardware)
- 4122-H Sales Representative (Jewellery/Watches)
- 4122-I Sales Representative (Minerals/Metals)
- 4122-J Sales Representative (Motor Vehicles/Cycles/Caravans/Boats/Petrol and Tyres)
- 4122-K Sales Representative (Musical Goods)
- 4122-L Sales Representative (Pharmaceuticals/Toiletries)
- 4122-M Sales Representative (Photographic Equipment/Supplies)
- 4122-N Sales Representative (Textiles/Clothing/Footwear)
- 4122-O Sales Representative (Toys/Sporting Goods)
- 4122-Z Sales Representatives and Agents (Other Products) nec

## 413 SALESPERSONS AND RELATED OCCUPATIONS

### 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS)

- 4130-A Salesperson (Domestic Hardware)
- 4130-B Salesperson (Fabrics, Clothing/Footwear)
- 4130-C Salesperson (Food/Drink Products)
- 4130-D Salesperson (Furniture/Floor Coverings)
- 4130-E Salesperson (Household Appliances/Radio/Television)
- 4130-F Salesperson (Motor Vehicles/Boats/Caravans/Motor Cycles)
- 4130-G Salesperson (Musical Equipment/Goods)
- 4130-H Salesperson (Newspapers/Books/Stationery)
- 4130-I Salesperson (Pharmaceutical Products/Toiletries)
- 4130-J Salesperson (Photographic Equipment/Supplies)
- 4130-K Salesperson (Plants/Seeds/Gardening Supplies)
- 4130-L Salesperson (Tyres/Vehicle Accessories)
- 4130-M Salesperson (Sports Equipment/Toys)
- 4130-N Salesperson (Watches/Jewellery)
- 4130-Z Salespersons/Sales Assistants (General Products) nec

### 4131 STREET VENDORS, SHOP CANVASSERS AND SALES DRIVERS

- 4131-A Buyer (Scrap)
- 4131-B Newspaper Vendor
- 4131-C Representative (Metal Merchant)
- 4131-D Salesperson (Cash Van Sales)
- 4131-E Salesperson (Door-to-Door)
- 4131-F Street Vendor

### 4132 SALES ATTENDANTS AND CHECK-OUT OPERATORS

- 4132-A Service Station Attendant
- 4132-B Check-out Operator
- 4132-C Drive-in Attendant (Theatre)
- 4132-D Drive-in Attendant (Food)
- 4132-E Vending Machine Attendant

### 4139 OTHER SALESPERSONS AND RELATED OCCUPATIONS

- 4139-A Auctioneer
- 4139-B Auction Room Attendant
- 4139-C Demonstrator (Sales)
- 4139-D Pawnbroker
- 4139-E Rental Salesperson
- 4139-F Salesperson (Services, General)
- 4139-G Conductor (Bus/Tram)
- 4139-H Ticket Salesperson
- 4139-I Travel Adviser
- 4139-J Buyer (General)
- 4139-Z Salespersons and Related Occupations nec

**MINOR GROUP 410**  
**SALES SUPERVISION OCCUPATIONS**

Sales Supervision Occupations are classified in the following unit group.

4100 Supervisors, Sales

*Related Occupations*

- Unit Group 1022 : Sales and Marketing Management Occupations
- Minor Group 1024 : Supply and Distribution Management Occupations

**4100 SUPERVISORS, SALES**

This unit group covers supervisory occupations concerned with retailing and wholesaling goods and services.

**Entry Requirements** Year 10-12 plus up to 10 years' experience in related sales areas; in some cases a para-professional certificate.

**Activities include** performing duties as described under Master Title SUPERVISOR MANAGER within the area of retail and wholesale trades.

*Related Occupations*

- Unit Group 4230 : Supervisors, Food and Beverage Preparation and Related Service Occupations
- Unit Group 4250 : Supervisors, Laundering, Dry-Cleaning and Related Occupations
- Occupation 4260-A : Managing Supervisor, Hairdressing Establishment
- Occupation 4260-B : Managing Supervisor, Beauty Establishment
- Occupation 4260-C : Managing Supervisor, Massage Establishment

**4100-A DISTRICT SALES MANAGER (INSURANCE)**

Plans, organises, directs and controls the operations of the sole agents engaged in selling life and general insurance.

Performs duties as described under Master Title SUPERVISOR MANAGER with particular reference to Life Assurance or Fire and General Insurance. Responsible at regional, State or national level for the insurance sales activities of a company. Develops the sale of products through the sales force within his/her territory. Recruits, inducts and establishes new inspectors. Directs the management, training, development, support and co-ordination of sole agents' activities. Attends seminars on management and sales promotion to keep abreast of new techniques. Maintains contact with major clients within a territory.

*Job Content Factors*

<i>Workers</i>	
FP: GE10-12y PSP2y(PPC)	IP: E10y
HC: ESC	RQ: U2
<i>Materials</i>	
SM:	EQ:
<i>Functions</i>	
MA: A2 P1 D2 M3 L2	
PA: S1 E1	SA: S1 M2 B1 R3-4

<i>Context</i>	
EC: L1	TC: A1
SS: 9	SC: 9 (vy)
LMS: 500-600 (0 %SE)	ASIC: 623

**4100-B FIELD SUPERVISOR (INSURANCE)**  
**Divisional Manager (Insurance); Field Unit Manager (Insurance)**

Supervises, assists and trains inspectors or life underwriters through individual contact, joint field work and sales meetings.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN specifically within the insurance matters in the completion of new business. Conducts the necessary underwriting surveys and reports. Assists in the setting of forecasts and the increase of production levels from salespersons. Acts as a first line of communication between field staff and the office with general inquiries and problems.

*Job Content Factors*

<i>Workers</i>	
FP: GE10-12y PSP2y(PPC)	IP: E10y
HC: ESC	RQ: U2

<i>Materials</i>	
SM: D1 P1	EQ:
<i>Functions</i>	
MA: A2 P1 D2 M3 L2	
PA: S1 E1	SA: S1 B1 R3-4
<i>Context</i>	
EC: T2 L1	TC: A1
SS: 8	SC: 9 ( vy)
LMS: 1000-1200(0 %SE)	
ASIC: 623	

**4100-C            MANAGER, REAL ESTATE AGENTS**  
**Branch Manager (Real Estate Agents); Sales**  
**Manager (Real Estate Sales)**

Organises, directs and controls activities of real estate salespersons engaged in acting for clients in buying, selling or leasing real property.

Performs duties as described under Master Title SUPERVISOR MANAGER specifically with salespersons dealing with real estate. Ensures that real estate practices and legal requirements are observed. Advises staff of developments in the industry, authorises listings, prepares sales reports as required.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP2y(PPC)	IP: T12w E5y
HC: ESI	RQ: L1 S1
<i>Materials</i>	
SM: D1 P1 T2	EQ: V2
<i>Functions</i>	
MA: P2 D2 M3 L1	
PA: S1 W2 E1	SA: S1 P1 M2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 9	SC: 10 ( vy)
LMS: 200-300 (20%SE)	
ASIC: 63	

**4100-D            SALES SUPERVISOR (RETAIL/**  
**WHOLESALE ESTABLISHMENT)**

Supervises and co-ordinates the activities of staff engaged in stocking shelves with merchandise, preparing displays, and assisting customers in departments of larger retail or wholesale establishments.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN specifically in relation to retail operations. Orders merchandise, supplies and equipment; plans department layout, shelf arrangement, signs and displays, compiles sales records, investigates complaints. Acts as a first line of communication between staff and management.

May perform duties of staff supervised. May be designated according to department supervised, e.g.

- Grocery Department Supervisor
- Meat Department Supervisor
- Produce Department Supervisor

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-12y	IP: E2-5y
HC: ESI	RQ: U1 D2
<i>Materials</i>	
SM: D1 P1 T2	EQ:
<i>Functions</i>	
MA: P2 D2 R2 M3 L2	
PA: S2 W1 E1	SA: S1 I2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1
SS: 4	SC: 10 ( vy)
LMS: 8000 (0 %SE)	
ASIC: 47,48	

**4100-E            SUPERVISOR MANAGER (RETAIL/**  
**WHOLESALE STORE)**  
**Department Manager (Sales)**

Plans, organises, directs and controls the operations of a retail or wholesale trade establishment or unit of an establishment concerned with buying and/or warehousing goods and reselling them to consumers on own or owner's behalf or in partnership; supervises and co-ordinates activities of establishment personnel.

Performs duties as described under Master Title SUPERVISOR MANAGER with special reference to retail or wholesale operations.

May be a proprietor of a small business, or may specialise in a particular type or range of merchandise and be designated accordingly, e.g.

- Department Manager, Men's Wear
- Department Manager, Women's Wear
- Importer-Exporter
- Manager, Shoe Department
- Service Station Manager

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-12y	IP: E5y
HC: ESI	RQ: U1 D2
<i>Materials</i>	
SM: D2 P1 T2	EQ:
<i>Functions</i>	
MA: P1 D2 R2 M3 L2	
PA: S1 W2 E1	SA: A2 S1 M2 B1 R2-3
<i>Context</i>	
EC: L1	TC: A1
SS: 4	SC: 10 ( vy)
LMS: 5000 (0 %SE)	
ASIC: 47,48	

**4100-Z            SUPERVISORS, SALES nec**

This residual group covers retailing and wholesaling supervisory occupations not elsewhere classified in Minor Group 410, e.g.

- Supervisor, Rental Service
- Woolbroker

**MINOR GROUP 411**  
**INSURANCE AND REAL ESTATE OCCUPATIONS**

Insurance and Real Estate Occupations are classified in the following unit groups.

- 4110 Insurance Brokers and Agents
- 4111 Real Estate Agents and Managers

**4110 INSURANCE BROKERS AND AGENTS**

This unit group covers occupations engaged in selling or soliciting sales of insurance to individuals, businesses and organisations, acting as independent agents or employees of insurance companies.

**Entry Requirements** a para-professional certificate and 2 years' experience before registration.

**Activities include** compiling lists of prospective customers; interviewing; analysing needs; explaining policies, risks covered, rates and benefits of policies offered; making recommendations and adjustments according to client's needs.

*Related Occupations*

Unit Group 4014 : Insurance Clerks

**4110-A INSURANCE BROKER**

Operates as an independent agent to sell a variety of insurance such as life, fire, accident, industrial and marine, for many companies.

Compiles list of prospective customers from directories and other sources, interviews prospective and present customers to explain policies, risks covered, rates and benefits of policies and to make recommendations for amount and type of, or increase in, cover based on analysis of prospect's circumstances.

May collect premiums, keep records of payments or assist in investigating claims. May be designated according to type of specialisations. May undertake duties described under Master Title SUPERVISOR MANAGER.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-12y PSP2y(PPC)	IP: E2y
HC: ESI	RQ: U1
<i>Materials</i>	
SM: D1 P1	EQ:
<i>Functions</i>	
MA: I2 A2 D2 R3 M2 L2	
PA: S1 E1	SA: A2 S1 M2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1
SS: 10	SC: 11 ( vy)
LMS: 1500-1800(10%SE)	ASIC: 62

**4110-B INSURANCE INSPECTOR (FIRE AND GENERAL INSURANCE)**  
**Insurance Agent**

Sells fire and general insurance to new and existing clients, and solicits custom from potential customers.

Compiles list of prospective customers from directories and other sources, interviews prospective and present customers to explain policies, risks covered, rates and benefits of policies and to make recommendations for amount and type of, or increase in, cover based on analysis of prospect's circumstances.

May collect premiums, keep records of payments or assist in investigating claims. May be designated according to type of specialisation, e.g.

Insurance Inspector, Industrial Property

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-12y PSP2y(PPC)	IP: E2y
HC: ESI	RQ: U1
<i>Materials</i>	
SM: D1 P1	EQ:
<i>Functions</i>	
MA: A2 D2 R3 M2 L2	
PA: S1 W2 E1	SA: A1 S2 I1
<i>Context</i>	
EC: T2 L1	TC: A1
SS: 6	SC: 7 ( vy)
LMS: 400-480 (0 %SE)	ASIC: 62

**4110-C LIFE ASSURANCE REPRESENTATIVE**  
**Life Underwriter; Life Insurance Representative**

Sells life assurance to new and existing clients, and solicits custom from potential customers.

Compiles list of prospective customers from directories and other sources, interviews prospective and present customers to explain policies, risks covered, rates and benefits of policies and to make recommendations for amount and type of, or increase in, cover based on analysis of prospect's circumstances.

May collect premiums, keep records of payments or assist in investigating claims.

#### Job Content Factors

##### Workers

FP: GE10-12y PSP2y(PPC)

IP: E2y

HC: ESI

RQ: U1

##### Materials

SM: D1 P1

EQ:

##### Functions

MA: A2 D2 R3 M2 L2

PA: S1 W2 E1

SA: A1 S2 I1

#### Context

EC: L1

TC: A1

SS: 6

SC: 7 (vy)

LMS: 220-240 (0 %SE)

ASIC: 62

#### 4110-Z INSURANCE BROKERS AND AGENTS

nec

This residual group covers insurance brokers and agents not elsewhere classified in Unit Group 4110.

### 4111 REAL ESTATE AGENTS AND MANAGERS

This unit group covers occupations concerned with selling real property or arranging tenancies for apartments or buildings.

**Entry Requirements** Year 10-12 or, in some cases, may require a para-professional certificate and 2 years' experience.

**Activities include** acting as agent for buyer or seller of real property, obtaining details of land or buildings for sale or lease, assisting with terms of sale or lease, advertising, liaising with other agents; interviewing prospective tenants, accompanying clients to view vacant properties or properties about to become vacant; investigating references, conducting property inspections, accepting deposits or collecting rents.

#### Related Occupations

Minor Group 424

: Accommodation Occupations

Occupation 4122-D

: Sales Representative (Farm Properties/Supplies)

#### 4111-A

##### REAL ESTATE AGENT

Representative, Real Estate; Sub-agent, Real Estate

Places real property on the market on behalf of owner and assists in selling or buying of properties.

Lists details of land or buildings for sale, estimates market values for properties, arranges for the advertising of properties. Introduces buyers to properties, assesses buyers' needs and endeavours to locate suitable properties for purchasers' consideration. Conducts interested parties through premises, advises on merits and terms of sale. Accepts premises for lease, contacts known clients or advertises properties and negotiates lease. Arranges rent collection and oversights conditions of lease and maintenance of premises.

May perform duties described under Master Title SUPERVISOR MANAGER. May specialise in a particular type of property and may be designated accordingly, e.g.

Real Estate Agent, Business Broker

Real Estate Agent, Land Development

Real Estate Agent, Mortgage Broker

Real Estate Agent, Property Investment Consultant

Real Estate Agent, Property Management

#### Job Content Factors

##### Workers

FP: GE10-12y

IP: T3m

HC: ECS

RQ: L1 S1

##### Materials

SM: D2 P1 T2

EQ: V1

##### Functions

MA: P2 D2 R3 M3 L2

PA: S2 W2 E1

SA: S1 P1

#### Context

EC: L1

TC: A1 I2

SS: 4

SC: 8 (vy)

LMS: 17500 (10%SE)

ASIC: 63

#### 4111-B PROPERTY MANAGER (REAL ESTATE)

Brings together two or more parties to enact a real property leasing agreement.

Places vacant properties on the rental market, estimates current market rent for properties, arranges for or provides advertising, introduces tenants to properties, acts under landlords' instruction with respect to collecting rents, collecting bond monies, inspecting properties before, during or after tenancies, screening prospective tenants, signing leases, maintaining the property and accounting for all income and expenses. Ensures that real estate practice and legal requirements are observed.

May also perform managerial duties such as those described under Master Titles SUPERVISOR MANAGER or SUPERVISOR/FOREMAN/WOMAN. May specialise in particular types of property and may be designated accordingly, e.g.

Property Manager, Commercial/Industrial Property

Property Manager, Holiday Letting

Property Manager, Residential Property

Property Manager, Strata Title

#### Job Content Factors

##### Workers

FP: GE12y

IP: T1y

HC: ECI

RQ: L1 S1 U2

<i>Materials</i>	
SM: D2 P1 T2	EQ: V1
<i>Functions</i>	
MA: P1 D2 R3 M3 L2	
PA: S1 W2 E1	SA: S1 I1
<i>Context</i>	
EC: L1	TC: A1
SS: 8	SC: 8 (vy)
LMS: 1500-2000(0 %SE)	ASIC: 63

4111-C VALUER (REAL ESTATE)

Assesses value of property, i.e. land and buildings, for rating, realisation or finance purposes.

Examines property according to established procedures and standards, establishes current value and submits documentary evidence to substantiate reason for validation.

May specialise in a particular aspect of property valuation and be designated accordingly, e.g.  
Valuer, Agricultural/Pastoral Property  
Valuer, Hotel

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP2-3y(B)	IP: E2y
HC: ECS	RQ: L1 S1 U1
<i>Materials</i>	
SM: D2 P2 T1	EQ: V1
<i>Functions</i>	
MA: A2 D2 R3 M3 L2	
PA: S2 W2 E2	SA: A1 S2 I1
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 7	SC: 10 (vy)
LMS: 1000-1250(0 %SE)	ASIC: 63

MINOR GROUP 412  
SALES REPRESENTATIVE OCCUPATIONS

Sales Representative Occupations are classified in the following unit groups.

- 4120 Sales Representatives and Agents (Specialist Technical Products)
- 4121 Sales Representatives and Agents (Services)
- 4122 Sales Representatives and Agents (Other Products)

4120 SALES REPRESENTATIVES AND AGENTS (SPECIALIST TECHNICAL PRODUCTS)

This unit group covers occupations concerned with soliciting orders for and purchasing or selling scientific and technical products in an allocated geographical area to wholesale, retail, industrial, professional or other establishments.

**Entry Requirements** an appropriate post-secondary qualification with up to 3 years' experience.

**Activities include** becoming familiar with and assessing the characteristics of products to be sold; visiting and maintaining contact with existing customers and developing new contacts; explaining products to customers and potential customers; advising on possible modifications which would make products more acceptable to customers; quoting prices, credit terms, recording orders and arranging for delivery and/or installation of products sold, making follow-up visits as necessary to ensure customer satisfaction or advise on use or maintenance of products; keeping abreast of technical developments in the field, conveying to employers information about competitive strengths or weaknesses of products.

4120-A SALES REPRESENTATIVE (CHEMICAL PRODUCTS)  
Technical Consultant (Chemical Products);  
Technical Representative (Chemical Products)

Represents company on technical sales matters regarding the supply of various chemical products. Sells chemical products such as explosives, acids, industrial or agricultural chemicals, providing technical advice where necessary on the use and storage of such chemicals and providing information about purity, characteristics and dangers of such products. Performs duties as described under Unit Group 4120 SALES REPRESENTATIVES AND AGENTS (SPECIALIST TECHNICAL PRODUCTS).

May specialise in a particular type of chemical or chemical product and may be designated accordingly, e.g.  
Sales Representative, Plastics/Chemicals

Job Content Factors

Workers	
FP: GE12y PSP3y(D)	IP: E3y
HC: EIS	RQ: L1 U1
Materials	
SM: D2 P1 T2	EQ: V1
Functions	
MA: A1 P2 D2 R3 M3 L2	
PA: S1 E1	SA: A1 S2 I1 P2

Context	
EC: T1 L1	TC: A1
SS: 4	SC: 6 (vy)
LMS: 2500-4000(5 %SE)	ASIC: 47,48

4120-B SALES REPRESENTATIVE (EDP)  
Technical Consultant (EDP); Technical Representative (EDP)

Represents company on technical matters related to the sales of electronic data processing equipment, and solicits sales and advises customers on the availability and use of equipment.

Sells computers and electronic data processing systems to business or industrial establishments. Analyses customer's needs and recommends hardware or software to suit the customer's requirements. Emphasises saleable features such as flexibility, cost, capacity and economy of operation. Performs duties as described under Unit Group 4120 SALES REPRESENTATIVES AND AGENTS (SPECIALIST TECHNICAL PRODUCTS).

May specialise in software or hardware or in particular systems, and may be designated accordingly, e.g.  
Sales Representative, EDP Hardware  
Software Consultant

Job Content Factors

Workers	
FP: GE12y PSP3-4y(D) / (PPC)	IP: E3y
HC: EIS	RQ: L1 U1

<i>Materials</i>	
SM: D2 P1 T2	EQ: P1 K1 V1
<i>Functions</i>	
MA: A1 P2 D2 R3 M3 L2	
PA: S1 E1	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 4	SC: 6 (vy)
LMS: 1400-1700(5 %SE)	ASIC: 47,48

**4120-C**      **SALES REPRESENTATIVE  
(ELECTRONIC EQUIPMENT, EXCEPT  
EDP)**  
**Technical Consultant (Electronic Equipment,  
except EDP); Technical Representative  
(Electronic Equipment, except EDP)**

Represents company on specialised sales of electronic equipment other than electronic data processors.

Sells electronic equipment to individuals or business and industrial establishments. Examines and discusses customer's needs and recommends and demonstrates those pieces or components thought likely to meet customer's requirements. Performs duties as described under Unit Group 4120 SALES REPRESENTATIVES AND AGENTS (SPECIALIST TECHNICAL PRODUCTS).

May specialise in a particular type of electronic equipment and may be designated accordingly, e.g.  
 Sales Representative, Communications Equipment  
 Sales Representative, X-Ray Equipment

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP4y(T) or FP: GE12y PSP3-4y(Dip) / (Adip)	IP: T2y E3y IP: T1y E2y RQ: L1 U1
HC: EIS	
<i>Materials</i>	
SM: D2 P1 T1	EQ: P2 V1
<i>Functions</i>	
MA: A1 P2 D2 R3 M3 L2	
PA: S1 E1	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 4	SC: 6 (vy)
LMS: 1000 (5 %SE)	ASIC: 47,48

**4120-D**      **SALES REPRESENTATIVE  
(INDUSTRIAL MACHINERY AND  
EQUIPMENT)**  
**Technical Consultant (Industrial Machinery  
and Equipment)**

Represents company on technical sales of special industrial machinery and equipment.

Sells industrial machinery such as metalworking, woodworking, food processing and plastic fabricating machines in response to expressed or assessed customer needs. Reviews existing plant machinery and layout and proposes more effective or efficient layout. Arranges for installation of machinery. Performs duties as described under Unit Group 4120 SALES REPRESENTATIVES AND AGENTS (SPECIALIST TECHNICAL PRODUCTS). Supplies technical information and skilled advice to present to prospective clients.

May specialise in a specific type of industrial machinery and equipment and may be designated accordingly, e.g.  
 Sales Representative, Aircraft  
 Sales Representative, Food Machinery  
 Sales Representative, Textile Machinery  
 Sales Representative, Welding Equipment

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP4y(T) or FP: GE12y PSP3-4y(Dip) / (Adip)	IP: T3y E3y IP: T1y E2y RQ: L1 U1
HC: EIS	

<i>Materials</i>	
SM: D2 P1 T1	EQ: M1 V1
<i>Functions</i>	
MA: A1 P2 D2 R3 M3 L2	
PA: S1 E1	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 4	SC: 6 (vy)
LMS: 3000-4000(5 %SE)	ASIC: 47,48

**4120-E**      **SALES REPRESENTATIVE  
(MACHINERY/EQUIPMENT)**

Represents company in order to solicit sales of farm and construction equipment, business machines, electrical/electronic equipment and other fabricating or processing equipment to retail or industrial establishments.

Performs duties as described under Unit Group 4120 SALES REPRESENTATIVES AND AGENTS (SPECIALIST TECHNICAL PRODUCTS) with special reference to machinery and equipment such as agricultural implements, earthmoving machinery, spraying equipment, calculators, office machines, air-conditioners, batteries, cables, switches, welding equipment, metalworking machinery, packing/bottling plant, woodworking machinery.

May handle a broad or a narrow range of products, and may be designated accordingly, e.g.  
 Sales Representative, Agricultural Equipment  
 Sales Representative, Office Machines

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP4y(T) or FP: GE10-12y	IP: T3y E1y IP: T3m E3y RQ: L1 U2
HC: ESR	
<i>Materials</i>	
SM: D2 P1 T1	EQ: V2
<i>Functions</i>	
MA: I2 P2 D2 R3 M3 L2	
PA: S1 E2	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 5	SC: 6 (vy)
LMS: 750 (5 %SE)	ASIC: 47,48

**4120-F**      **SALES REPRESENTATIVE (MEDICAL  
AND DENTAL EQUIPMENT AND  
SUPPLIES)**  
**Technical Consultant (Medical and Dental  
Equipment and Supplies)**

Represents company to effect technical sales of medical and dental equipment, except prescription drugs and patent medicines.

Promotes, through personal contact with members of the medical and dental professions, the sales of medical and dental equipment and supplies, except drugs. Studies data describing new equipment, compiles data on equipment and supplies preferred by customers. Provides technical information on products and arranges for their supply or installation. Performs duties as described under Unit Group 4120 SALES REPRESENTATIVES AND AGENTS (SPECIALIST TECHNICAL PRODUCTS).

May specialise in one type of product and may be designated accordingly, e.g.  
 Sales Representative, Dental Equipment  
 Sales Representative, Medical Equipment  
 Sales Representative, Prosthetic and Orthotic Appliances  
 Sales Representative, Veterinary Equipment and Supplies

*Related Occupation*

Occupation 4122-L : Sales Representative  
 (Pharmaceuticals/Toiletries)

*Job Content Factors**Workers*

FP: GE12y PSP3y(D) IP: E3y  
 or FP: GE10y\* PSP4y(T) IP: E3y  
 HC: EIS RQ: L1 U1

*Materials*

SM: D1 P1 T2 EQ: P2 V1

*Functions*

MA: A1 P2 D2 R3 M3 L2  
 PA: S1 E1 SA: A1 S2 I1 P2

*Context*

EC: T1 L1 TC: A1  
 SS: 4 SC: 6 (vy)

LMS: 800-1000 (5 %SE)

ASIC: 47,48

**4120-Z SALES REPRESENTATIVES AND AGENTS (SPECIALIST TECHNICAL PRODUCTS) nec**

This residual group covers technical sales representative occupations not elsewhere classified in Unit Group 4120, such as representatives concerned with aircraft sales, pipeline equipment and other products that require professional or skilled knowledge to market the equipment to clients.

**4121 SALES REPRESENTATIVES AND AGENTS (SERVICES)**

This unit group covers occupations concerned with soliciting orders for and purchasing or selling services in an allocated geographical area to wholesale, retail, industrial, professional or other establishments.

**Entry Requirements** Year 10-12 and up to two years' experience in a related sales capacity.

**Activities include** becoming familiar with, and assessing the characteristics of services to be offered; visiting and maintaining contact with existing customers and developing new contacts, explaining services to customers and potential customers, advising on possible modifications which would make services more acceptable to customers; quoting prices, credit terms, recording orders and arranging for delivery of services, making follow-up visits as necessary to ensure customer satisfaction; keeping abreast of developments or changes to the services available; conveying to employer, information about the competitive strengths or weaknesses of services.

*Related Occupations*

Unit Group 1034-B : Investment Adviser/Dealer

**4121-A SALES REPRESENTATIVE (ADVERTISING)  
 Representative (Advertising)**

Sells various forms of advertising to business proprietors, advertising firms and interested parties.

Visits business houses, advertising firms and individuals to arrange continuation of current advertising program or to obtain new or additional business. Obtains information regarding potential advertisers from expired accounts, papers, business journals and personal contacts. Advises clients on merits of a particular form of advertising. Displays samples or copies of advertising where appropriate. Arranges and draws up contract. Services contract to ensure satisfactory execution.

May arrange preparation or production of advertising material when dealing with other than advertising firms. May specialise in a particular form of advertising sales and be designated accordingly, e.g.

Salesperson, Art  
 Salesperson, Radio and TV Time  
 Salesperson, Signs and Displays

*Job Content Factors**Workers*

FP: GE10y IP: T3m E1y  
 HC: ESA RQ: L1 U1

*Materials*

SM: D2 I1 P1 EQ: V2

*Functions*

MA: A2 P2 D2 R3 M3 L2  
 PA: S1 E2 SA: A1 S2 I1 P2

*Context*

EC: T1 L1 TC: A1  
 SS: 4 SC: 6 (vy)

LMS: 1000 (5 %SE)

ASIC: 47,48

**4121-B SALES REPRESENTATIVE (BUSINESS SERVICES)  
 Mercantile Agent**

Represents company/companies to promote the sales of financial and related services such as credit information and debt collection, to commercial, industrial and other business organisations.

Promotes, through personal contact with clients and prospective clients, the sale of business services. Provides information on market services, consumer information, business publications, business education, private and commercial investigations, credit information and debt collection. Performs duties as described under Unit Group 4121 SALES REPRESENTATIVES AND AGENTS (SERVICES).

May specialise in particular service and may be designated accordingly, e.g.

Sales Representative, Debt Collection Agency

*Related Occupation*

Occupation 4296-A : Debt Collector

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP: T1m Ely
HC: ESC	RQ: L1 U1
<i>Materials</i>	
SM: D2 I2 P1	EQ: V1
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: S1 E2	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 4	SC: 6 ( vy)
LMS: 1000 (5 %SE)	ASIC: 47,48

**4121-C SALES REPRESENTATIVE (FREIGHT SERVICES)**

Represents company offering freight and storage facilities to individuals or business organisations.

Performs duties as described under Unit Group 4121 SALES REPRESENTATIVES AND AGENTS (SERVICES). Visits homes or business establishments to advise prospective customers about company's services. Estimates the cost of packing, crating, shipping or storing household goods, machinery, manufactured parts and other material. Estimates volume of shipping or storage space required, using comparison chart or electronic measuring device. Advises customers on insurance coverage and arranges pickup and delivery times.

May compute liability and insurance costs. May specialise in certain kinds of freight services, and may be designated accordingly, e.g.

Sales Representative, International Removals

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP: E2y
HC: ESR	RQ: L1
<i>Materials</i>	
SM: D2 P1 T2	EQ: V1
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: S1 W2 E2	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 4	SC: 6 ( vy)
LMS: 1000 (5 %SE)	ASIC: 47,48

**4121-D SALES REPRESENTATIVE (PRINTING)**

Represents a printing company in order to solicit typesetting or printing contracts.

Performs duties as described under Unit Group 4121 SALES REPRESENTATIVES AND AGENTS (SERVICES). Prepares sales promotion information for prospective customers following leads from management, established customers and other sources. Visits business establishments and confers with purchasing personnel to describe services offered, quote prices and explain technical features such as type size and style, art work, paper stock and reproduction methods. Expedites customer's order through the printing process.

May submit formal bids on large orders of printed matter.

*Job Content Factors*

<i>Workers</i>	
FP: GE10-12y	IP: E2y
HC: ESA	RQ: L1 U2 V2
<i>Materials</i>	
SM: D2 I1 P1	EQ: V2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: S1 E2	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 4	SC: 6 ( vy)
LMS: 800 (5 %SE)	ASIC: 47,48

**4121-E TRAVEL AGENT  
Travel Consultant**

Plans itinerary and schedules travel accommodation for customers, individually or by groups.

Ascertain customer's requirements, studies travel routes and considers cost, availability and convenience of different types of transportation. Makes and confirms travel and hotel reservations and informs customer of bus, plane, ship and train connections. Marks suitable roads and possible detours on road map showing route from point of origin to destination and indicates points of interest such as restaurants, hotels and emergency repair services available during trip. Calculates distance of marked route and advises travelling and arrival time. Notifies customer of travel dates, baggage limits and medical and visa requirements. Ensures that all travel clearances have been obtained. Aids customer to complete travel forms. Gives customer tickets for confirmed transportation and hotel reservations and collects required amount of money. Supervises travel clerks.

May calculate fares for taxi or non-scheduled or chartered bus trips from rate tables, at customer's request. May conduct own travel business.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP: T3m
HC: CSE	RQ: U1
<i>Materials</i>	
SM: D2 I2 P1	EQ: K2
<i>Functions</i>	
MA: I2 P2 D2 R3 M3 L2	
PA: S1 E2	SA: A1 S2 I1
<i>Context</i>	
EC: L1	TC: A1
SS: 7	SC: 9 ( vy)
LMS: 2500 (5 %SE)	ASIC: 47,48

**4121-Z SALES REPRESENTATIVES AND AGENTS (SERVICES) nec**

This residual group covers occupations concerned with promoting sales of services to individuals, organisations and businesses, not elsewhere classified in Unit Group 4121, e.g.

Sales Representative, Armoured Car Service  
Sales Representative, Communications Service  
Sales Representative, Education Course  
Sales Representative, Hotel Services  
Sales Representative, Machine Vending Service  
Sales Representative, Security Service

**4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS)**

This unit group covers occupations concerned with selling products in an allocated geographical area to wholesale, retail, industrial, professional or other establishments.

**Entry Requirements** Year 10 and one year's experience in a related sales capacity.

**Activities include** becoming familiar with and assessing the characteristics of the products to be sold; compiling lists of prospective customers for use as sales leads, based on information from newspapers, business directories, and other sources; travelling throughout assigned territory to call on regular and prospective customers to solicit orders or talking with customers on sales floor or by phone; displaying or demonstrating products, using samples or catalogue and emphasising saleable features; quoting prices and credit terms and preparing sales contracts for orders obtained; estimating date of delivery based on knowledge of own firm's production and delivery schedules; preparing reports of business transactions and keeping expense accounts; representatives tend to specialise in a particular product or narrow range of products.

#### 4122-A MANUFACTURER'S AGENT Manufacturer's Representative

Represents a company or companies in order to solicit sales of single, allied, diversified or multi-line products on commission basis to wholesale, retail and other establishments for one or more foreign or domestic manufacturer(s).

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS). Specialises in selling products as agent for manufacturing companies. Visits manufacturers to persuade them to sell their products through his/her services. Co-ordinates sales program for products handled.

May prepare advertising brochures and other literature and be designated according to type of products sold, e.g.

Textile Manufacturer's Agent

##### Job Content Factors

###### Workers

FP: GE10y IP: T3m Ely  
HC: EIS RQ: L1 U1

###### Materials

SM: D2 P1 T1 EQ: V1

###### Functions

MA: I2 P2 D2 R3 M3 L2  
PA: S1 E2 SA: A1 S2 I1 P2

###### Context

EC: T1 L1 TC: A1  
SS: 7 SC: 10 (vy)

LMS: 500 (0 %SE)

ASIC: 47

#### 4122-B SALES REPRESENTATIVE (BOOKS/ PAPER PRODUCTS)

Represents company in order to solicit sales of books, periodicals, magazines, stationery, greeting cards or paper products.

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS) with special reference to books and paper products. Advises on publication dates, displays, samples, suggests sales promotion techniques to retail dealers.

May be a generalist; may specialise in a narrow range of products, and may be designated accordingly, e.g.

Sales Representative, Text Books

##### Job Content Factors

###### Workers

FP: GE10y IP: T1m Ely  
HC: EIS RQ: L1 U2

###### Materials

SM: D1 I2 P1 EQ: V1

###### Functions

MA: I2 P2 D2 R3 M3 L2  
PA: S1 E2 SA: A1 S2 I1 P2

##### Context

EC: T1 L1 TC: A1  
SS: 4 SC: 6 (vy)

LMS: 500 (0 %SE)

ASIC: 47,48

#### 4122-C SALES REPRESENTATIVE (BUILDERS' HARDWARE/TIMBER)

Represents company in order to solicit sales of hardware or builders' supplies through wholesale or retail outlets.

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS) with special reference to items such as basic building materials, paint, plaster, tools, sanitary ware, screens, wire and wire products, timber, plywood, veneer and wood products. Demonstrates or displays products, and makes suggestions for promotion of goods.

May promote a wide or narrow range of products, and may be designated accordingly, e.g.

Sales Representative, Paint and Related Products

##### Job Content Factors

###### Workers

FP: GE10y IP: T1m Ely  
HC: ESR RQ: L1 U2

###### Materials

SM: D2 P1 T1 EQ: V1

###### Functions

MA: I2 P2 D2 R3 M3 L2  
PA: S1 E2 SA: A1 S2 I1 P2

###### Context

EC: T1 L1 TC: A1  
SS: 4 SC: 6 (vy)

LMS: 1000 (0 %SE)

ASIC: 47,48

#### 4122-D SALES REPRESENTATIVE (FARM PROPERTIES/SUPPLIES) Stock and Station Agent

Represents company in order to solicit sales of farm properties or agricultural equipment and products.

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS) with special reference to products such as wool, livestock, stock feed, fertilisers, veterinary or other farm supplies, and in relation to purchasing, selling, renting or managing agricultural or pastoral properties.

May specialise in a particular range of products and may be designated accordingly, e.g.

Grain Merchant  
Wool Buyer/Merchant

##### Job Content Factors

###### Workers

FP: GE10y IP: T1m Ely  
HC: ESR RQ: L1

<i>Materials</i>	
SM: D2 P1 T2	EQ: V1
<i>Functions</i>	
MA: I2 P2 D2 R3 M3 L2	
PA: S1 W2 E2	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 4	SC: 6 (vy)
LMS: 500 (0 %SE)	ASIC: 47,48

**4122-E SALES REPRESENTATIVE (FLOOR COVERINGS/FURNITURE)**

Represents company in order to solicit sales of floor coverings or furniture to individuals, or retail or wholesale establishments.

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS) with special reference to floor coverings such as carpet, vinyl tiles or sheet, underfelt and furniture of all kinds. Advises of new releases, installation procedures, and care or maintenance.

May specialise in a particular range of products and may be designated accordingly, e.g.

Sales Representative, Bedroom Furniture

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP: T1m Ely
HC: ESR	RQ: L1 U2
<i>Materials</i>	
SM: D2 P1 T2	EQ: V2
<i>Functions</i>	
MA: I2 P2 D2 R3 M3 L2	
PA: S1 E2	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 4	SC: 6 (vy)
LMS: 750 (0 %SE)	ASIC: 47,48

**4122-F SALES REPRESENTATIVE (FOOD/ DRINK/TOBACCO PRODUCTS)**

Represents company to solicit sales of food, drink or tobacco products to retail or wholesale establishments.

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS) with special reference to products such as meat, poultry, eggs, dairy products, fruit, vegetables, confectionery and soft drink, beer, wine and spirits and tobacco products. Advises of new lines becoming available and price alterations, and suggests promotion techniques.

May specialise in a general or a narrow range of products within this class, and may be designated accordingly, e.g.

Sales Representative, Grocery Lines

Sales Representative, Tobacco Products

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP: T1m Ely
HC: EIS	RQ: L1 U2
<i>Materials</i>	
SM: D2 P1 T2	EQ: V2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: S1 E2	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 4	SC: 6 (vy)
LMS: 2000 (0 %SE)	ASIC: 47,48

**4122-G SALES REPRESENTATIVE (HOUSEHOLD GOODS/DOMESTIC HARDWARE)**

Represents company in order to solicit sales of household

appliances and domestic hardware.

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS) with special reference to household appliances such as air-conditioners, heaters, floor polishers, food mixers, kitchen appliances, refrigerators, sewing machines, radio receivers and television sets, and domestic hardware, such as brushware, chinaware, cooking utensils, cutlery, lawnmowers and garden tools. Advises wholesalers or retailers of new lines and assists with promotion techniques.

May specialise in a broad or narrow range of goods and may be designated accordingly, e.g.

Sales Representative, Hardware

Sales Representative, Hi-Fi Equipment

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP: T1m Ely
HC: ESR	RQ: L1 U2
<i>Materials</i>	
SM: D2 P1 T1	EQ: V2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: S1 E2	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 4	SC: 6 (vy)
LMS: 2000 (5 %SE)	ASIC: 47,48

**4122-H SALES REPRESENTATIVE (JEWELLERY/WATCHES)**

Represents company in order to solicit sales of jewellery or watches and clocks.

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER GOODS) with particular reference to the sales of watches, clocks, jewellery, gemstones, ornaments and fine china and silverware. Advises of new products and assists with promotional techniques or materials.

May specialise in a particular range of goods and may be designated accordingly, e.g.

Sales Representative, Clocks

Sales Representative, Silverware

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP: T1m Ely
HC: ESR	RQ: L1 U2
<i>Materials</i>	
SM: D2 P1 T1	EQ: V2
<i>Functions</i>	
MA: I2 P2 D2 R3 M3 L2	
PA: S1 E2	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 4	SC: 6 (vy)
LMS: 500 (0 %SE)	ASIC: 47,48

**4122-I SALES REPRESENTATIVE (MINERALS/ METALS)**

Represents company in order to solicit sales of minerals and metals to retail establishments.

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS) with special reference to petroleum products, pig iron, ingot steel, non-ferrous metals, unformed tubes and extrusions, coal, coke, phosphate rock, mineral earths. Supplies limited technical data on characteristics of products.

May handle a broad or a narrow range of products.

**Job Content Factors****Workers**

FP: GE10y

IP: T3m E1y

HC: EIS

RQ: L1 U2

**Materials**

SM: D2 P1 T1

EQ: V2

**Functions**

MA: I2 P2 D2 R3 M3 L2

PA: S1 E2

SA: A1 S2 I1 P2

**Context**

EC: T1 L1

TC: A1

SS: 4

SC: 6 (vy)

LMS: 500 (0 %SE)

ASIC: 47,48

**4122-J SALES REPRESENTATIVE (MOTOR VEHICLES/CYCLES/CARAVANS/BOATS/PETROL AND TYRES)**

Represents company in order to solicit sales of motor vehicles, motor cycles, caravans, boats, petrol and tyres.

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS) with special reference to new and used motor vehicles, cycles, caravans and boats, to parts and accessories for them and to petrol and tyres.

May also be required to hold special category driver's licence in order to demonstrate vehicle to customer. May specialise in a broad or a narrow range of products and may be designated accordingly, e.g.

Sales Representative, New and Used Caravans

Sales Representative, New Cars

**Job Content Factors****Workers**

FP: GE10y

IP: T3m E1y

HC: EIS

RQ: L1 U2

**Materials**

SM: D2 P1 T1

EQ: V2

**Functions**

MA: I2 P2 D2 R3 M3 L2

PA: S1 E2

SA: A1 S2 I1 P2

**Context**

EC: T1 L1

TC: A1

SS: 4

SC: 6 (vy)

LMS: 1000 (0 %SE)

ASIC: 47,48

**4122-K SALES REPRESENTATIVE (MUSICAL GOODS)**

Represents company in order to solicit sales of musical instruments, equipment, music and other goods to retail establishments, schools or other organisations with an involvement in musical activities.

Performs duties described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS) with special reference to musical instruments and goods.

May be required to be a performer and able to demonstrate the qualities of the products offered for sale. May specialise in a broad or a narrow range of goods and may be designated accordingly, e.g.

Sales Representative, Electronic Organs

**Job Content Factors****Workers**

FP: GE10y

IP: T1m E1y

HC: ESA

RQ: L1 U2

**Materials**

SM: D2 I2 P1 T2

EQ: V2

**Functions**

MA: I2 P2 D2 R3 M3 L2

PA: S1 E2

SA: A1 S2 I1 P2

**Context**

EC: T1 L1

TC: A1

SS: 4

SC: 6 (vy)

LMS: 300 (0 %SE)

ASIC: 47,48

**4122-L SALES REPRESENTATIVE (PHARMACEUTICALS/TOILETRIES)**

Represents company in order to solicit sales of prescription drugs, cosmetics, patent medicines and toiletries to retail establishments.

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS) with special reference to products such as cosmetics, toilet preparations, dental supplies, first aid equipment, proprietary preparations and perfumes. Advises on new products or lines becoming available and assists with promotional material or techniques.

May arrange training for assistants in use and sale of products, such as cosmetics. May specialise in a particular range of goods.

**Job Content Factors****Workers**

FP: GE10-12y PSP1y(HD) / (HD)

IP: T3m

HC: EIS

RQ: L1 U2

**Materials**

SM: D2 P1 T2

EQ: V2

**Functions**

MA: I2 P2 D2 R3 M3 L2

PA: S1 E2

SA: A1 S2 I1 P2

**Context**

EC: T1 L1

TC: A1

SS: 4

SC: 6 (vy)

LMS: 500 (0 %SE)

ASIC: 47,48

**4122-M SALES REPRESENTATIVE (PHOTOGRAPHIC EQUIPMENT/SUPPLIES)**

Represents company in order to solicit sales of photographic equipment and supplies.

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS) with special reference to products such as cameras, projectors, photographic accessories, film, photographic chemicals, enlargers and processing equipment. Provides technical data on equipment and supplies.

May specialise in a particular range of products.

**Job Content Factors****Workers**

FP: GE10y

IP: T1m E1y

HC: ESA

RQ: L1 U2

**Materials**

SM: D2 I2 P1 T2

EQ: V2

**Functions**

MA: I2 P2 D2 R3 M3 L2

PA: S1 E2

SA: A1 S2 I1 P2

**Context**

EC: T1 L1

TC: A1

SS: 4

SC: 6 (vy)

LMS: 500 (0 %SE)

ASIC: 47,48

**4122-N SALES REPRESENTATIVE (TEXTILES/CLOTHING/FOOTWEAR)**

Represents a company in order to solicit sales of textiles, men's, women's and children's clothing or footwear.

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS) with special reference to textiles and textile products, men's, boys', women's, girls' or infants' clothing and/or footwear.

May specialise in a broad or a narrow range of products, and may be designated accordingly, e.g.  
Sales Representative, Canvas Goods  
Sales Representative, Ladies'/Gentlemen's Fashions

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP: T3m E1y
HC: EIS	RQ: L1 U2
<i>Materials</i>	
SM: D2 P1 T2	EQ: V2
<i>Functions</i>	
MA: I2 P2 D2 R3 M3 L2	
PA: S1 E2	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 4	SC: 6 ( vy)
LMS: 500 (0 %SE)	ASIC: 47,48

**4122-O      SALES REPRESENTATIVE (TOYS/  
SPORTING GOODS)**

Represents company in order to solicit sales of toys, children's books and games and sporting goods.

Performs duties as described under Unit Group 4122 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS) with special reference to such products as hard and soft toys, children's books and games, indoor games, sports gear and specialist clothing.

May provide information about new products and promotional programs. May specialise in a narrow or a broad range of products.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP: T1m E1y
HC: ESR	RQ: L1 U2
<i>Materials</i>	
SM: D2 P1 T2	EQ: V2
<i>Functions</i>	
MA: I2 P2 D2 R3 M3 L2	
PA: S1 E2	SA: A1 S2 I1 P2
<i>Context</i>	
EC: T1 L1	TC: A1
SS: 4	SC: 6 ( vy)
LMS: 500 (0 %SE)	ASIC: 47,48

**4122-Z      SALES REPRESENTATIVES AND  
AGENTS (OTHER PRODUCTS) nec**

This residual group covers sales representatives engaged in soliciting sales of products not elsewhere classified in Unit Group 4122.

**MINOR GROUP 413**  
**SALESPERSONS AND RELATED OCCUPATIONS**

Salespersons and Related Occupations are classified in the following unit groups.

- 4130 Salespersons/Sales Assistants (General Products)
- 4131 Street Vendors, Shop Canvassers and Sales Drivers
- 4132 Sales Attendants and Check-out Operators
- 4139 Other Salespersons and Related Occupations

*Related Occupations*

- Occupation 4042-D : Sales Clerk
- Unit Group 4013 : Insurance Clerks
- Major Group 71 : Materials Handling Occupations

**4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS)**

This unit group covers occupations concerned with preparing, demonstrating and selling products in wholesale and retail establishments.

**Entry Requirements Year 10.**

**Activities include** ascertaining make, type and quality of merchandise required by customer; applying knowledge of the characteristics, quality and merits of items sold to suggest selection to meet the customer's needs; displaying merchandise or demonstrating article; quoting or estimating prices, credit terms, trade-in allowances and delivery dates; advising on use and care of merchandise; preparing sales docket, invoice or contract; receiving payment or obtaining credit authorisation; wrapping or packaging merchandise; setting up displays of products in windows or on sales floor; checking stock and may requisition merchandise from stockroom or warehouse; dealing with telephone or postal inquiries; most salespersons tend to stay within an area of merchandising, such as hardware or food products or clothing and textiles.

**4130-A SALESPERSON (DOMESTIC HARDWARE)**  
**Salesman/woman (Domestic Hardware); Shop Assistant (Domestic Hardware)**

Sells or presents for sale, hardware in a retail or wholesale establishment.

Performs duties as described under Unit Group 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products such as brushware, garden supplies, domestic hardware, kitchenware, plumbing fittings, paint, wire products, glass and glassware, and basic building materials.

May assist with simple repair work for some appliances or arrange for repairs; may specialise in one area such as china goods, appliances or domestic hardware and may be designated accordingly, e.g.

- Sales Assistant, China Department
- Sales Assistant, Hardware

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP: T1m
HC: ESR	RQ:
<i>Materials</i>	
SM: D2 P1 T1	EQ:
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E2	SA: S1 I1
<i>Context</i>	
EC: L1	TC: A1
SS: 4	SC: 6 (vy)
LMS: 3000 (0 %SE)	ASIC: 47,48

**4130-B SALESPERSON (FABRICS, CLOTHING/ FOOTWEAR)**  
**Salesman/woman (Fabrics, Clothing/ Footwear); Shop Assistant (Fabrics, Clothing/ Footwear)**

Sells or presents for sale, textile products, clothing or footwear in a retail or wholesale establishment.

Performs duties as described under Unit Group 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products such as clothing, footwear and household fabrics.

May specialise in a particular range of textile products and be designated accordingly, e.g.

- Salesperson, Manchester Department
- Salesperson, Men's and Boys' Wear
- Salesperson, Women's and Girls' Wear

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP: T1m
HC: ESR	RQ:
<i>Materials</i>	
SM: D2 P1 T2	EQ:
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E2	SA: S1 I1
<i>Context</i>	
EC: L1	TC: A1
SS: 4	SC: 4 (vy)
LMS: 3000 (0 %SE)	
ASIC: 47,48	

**4130-C SALESPERSON (FOOD/DRINK PRODUCTS)**  
Salesman/woman (Food/Drink Products);  
Shop Assistant (Food/Drink Products)

Sells or presents for sale, food and drink products in retail or wholesale establishments.

Performs duties as described under Unit Group 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products for human consumption such as milk, bread, confectionery, groceries, meat, fruit and vegetables, liquor, soft drink, including prepared meals for consumption away from the premises.

May offer a range of products for sale, such as in a mixed business or supermarket, or may specialise in a single range of goods, and may be designated accordingly, e.g.

- Fruiterer; Fruitologist
- Green Grocer; Fruit Shop Salesperson
- Milk Vendor; Milkman/woman

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP: T1m
HC: EIS	RQ:
<i>Materials</i>	
SM: D2 P1 T2	EQ:
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E2	SA: S1 I1
<i>Context</i>	
EC: L1	TC: A1
SS: 3	SC: 3 (vy)
LMS: 3000 (0 %SE)	
ASIC: 47,48	

**4130-D SALESPERSON (FURNITURE/FLOOR COVERINGS)**  
Salesman/woman (Furniture/Floor Coverings); Shop Assistant (Furniture/Floor Coverings)

Sells or presents for sale, household furniture and floor coverings in retail or wholesale establishments.

Performs duties as described under Unit Group 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products such as carpets, lino or vinyl tiles, rugs, underfelt, blinds, furniture and mattresses.

May specialise in a broad or a narrow range of products, and may be designated accordingly, e.g.

- Salesperson, Furniture Department

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP: T1m
HC: ESR	RQ:
<i>Materials</i>	
SM: D2 P1 T2	EQ:
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E2	SA: S1 I1
<i>Context</i>	
EC: L1	TC: A1
SS: 4	SC: 4 (vy)
LMS: 3000 (0 %SE)	
ASIC: 47,48	

**4130-E SALESPERSON (HOUSEHOLD APPLIANCES/RADIO/TELEVISION)**  
Salesman/woman (Household Appliances/  
Radio/Television); Shop Assistant (Household  
Appliances/Radio/Television)

Sells or presents for sale, household appliances, radio and television receivers and equipment in retail or wholesale establishments.

Performs duties as described under Unit Group 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products such as air-conditioners, fans, food mixers, heating equipment, refrigerators, sewing machines, washing machines, radio or television receivers, recorders, antennae.

May specialise in a broad or a narrow range of appliances and may be designated accordingly, e.g.

- Salesperson, Hi-Fi Equipment

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP: T1m
HC: ESR	RQ:
<i>Materials</i>	
SM: D2 P1 T2	EQ:
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E2	SA: S1 I1
<i>Context</i>	
EC: L1	TC: A1
SS: 4	SC: 4 (vy)
LMS: 3000 (0 %SE)	
ASIC: 47,48	

**4130-F SALESPERSON (MOTOR VEHICLES/BOATS/CARAVANS/MOTOR CYCLES)**  
Salesman/woman (Motor Vehicles/Boats/  
Caravans/Motor Cycles); Shop Assistant  
(Motor Vehicles/Boats/Caravans/Motor  
Cycles)

Sells or presents for sale new and used motor vehicles, petrol and petroleum products, motor cycles, boats, caravans, tyres and batteries in retail or wholesale establishments.

Performs duties as described under Unit Group 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products such as new and used motor vehicles, motor vehicle accessories, petrol, lubricating oils, motor cycles, boats, caravans and accessories, tyres, tubes and batteries.

May assist with repairing or replacing parts or components. May service or lubricate vehicles or parts; may be allocated to a specialised area and may be designated accordingly, e.g.

- Salesperson, Caravan
- Salesperson, New Cars

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP: T1m
HC: ESR	RQ:
<i>Materials</i>	
SM: D2 P1 T2	EQ:

*Functions*

MA: D3 R4 M3 L3

PA: U1 W1 E1

SA: S1 I1

*Context*

EC: L1

TC: A1

SS: 3

SC: 4 (vy)

LMS: 10000 (0 %SE)

ASIC: 47,48

**4130-G****SALESPERSON (MUSICAL EQUIPMENT/GOODS)****Salesman/woman (Musical Equipment/Goods); Shop Assistant (Musical Equipment/Goods)**

Sells or presents for sale musical instruments, equipment and music in retail or wholesale establishments.

Performs duties described under Unit Group description 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products such as musical instruments, cases and parts, records, pre-recorded tapes and sheet music.

May specialise in a broad or a narrow range of products and may be designated accordingly, e.g.

Salesperson, Sheetmusic

*Job Content Factors**Workers*

FP: GE10y

IP: T1m

HC: ESA

RQ:

*Materials*

SM: D2 I2 P1 T2

EQ:

*Functions*

MA: D3 R4 M3 L3

PA: U1 H1 W1 E2

SA: S1 I1

*Context*

EC: L1

TC: A1

SS: 4

SC: 4 (vy)

LMS: 3000 (0 %SE)

ASIC: 47,48

**4130-H****SALESPERSON (NEWSPAPER/BOOKS/STATIONERY)****Salesman/woman (Newspaper/Books/Stationery); Shop Assistant (Newspaper/Books/Stationery)**

Sells or presents for sale newspapers, magazines, books, stationery and office supplies in retail or wholesale establishments.

Performs duties as described under Unit Group 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products such as newspapers, journals, books, artists' supplies, greeting cards, pencils and pens, paper and office supplies.

May specialise in a specific range of products and may be designated accordingly, e.g.

Newsagent

Salesperson, Textbooks

Salesperson, Office Supplies

*Job Content Factors**Workers*

FP: GE10y

IP: T1m

HC: ESC

RQ:

*Materials*

SM: D2 P1 T2

EQ:

*Functions*

MA: D3 R4 M3 L3

PA: U1 H1 W1 E2

SA: S1 I1

*Context*

EC: L1

TC: A1

SS: 4

SC: 4 (vy)

LMS: 10000 (0 %SE)

ASIC: 47,48

**4130-I****SALESPERSON (PHARMACEUTICAL PRODUCTS/TOILETRIES)****Salesman/woman (Pharmaceutical Products/Toiletries); Shop Assistant (Pharmaceutical Products/Toiletries)**

Sells or presents for sale cosmetics, perfumes, patent medicines, toilet preparations in retail or wholesale establishments.

Performs duties described under Unit Group description 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products such as cosmetics, non-prescription pharmaceuticals, toilet preparations, first aid equipment, shampoos, soaps and perfumes.

May specialise in a particular range of products and may be designated accordingly, e.g.

Cosmetician

*Job Content Factors**Workers*

FP: GE10y

IP: T1m

HC: ESR

RQ:

*Materials*

SM: D2 P1 T2

EQ:

*Functions*

MA: D3 R4 M3 L3

PA: U1 H1 W1 E2

SA: S1 I1

*Context*

EC: L1

TC: A1

SS: 4

SC: 4 (vy)

LMS: 8000 (0 %SE)

ASIC: 47,48

**4130-J****SALESPERSON (PHOTOGRAPHIC EQUIPMENT/SUPPLIES)****Salesman/woman (Photographic Equipment/Supplies); Shop Assistant (Photographic Equipment/Supplies)**

Sells or presents for sale photographic equipment, film and processing equipment in retail or wholesale establishments.

Performs duties as described under Unit Group 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products such as cameras, projectors, photographic accessories, film, enlargers and processing equipment.

*Job Content Factors**Workers*

FP: GE10y

IP: T1m

HC: ESA

RQ:

*Materials*

SM: D2 I2 P1 T2

EQ:

*Functions*

MA: D3 R4 M3 L3

PA: U1 H1 W1 E2

SA: S1 I1

*Context*

EC: L1

TC: A1

SS: 4

SC: 4 (vy)

LMS: 3000 (0 %SE)

ASIC: 47,48

**4130-K****SALESPERSON (PLANTS/SEEDS/GARDENING SUPPLIES)****Salesman/woman (Plants/Seeds/Gardening Supplies); Shop Assistant (Plants/Seeds/Gardening Supplies)**

Sells or presents for sale seeds, seedlings, plants and gardening supplies or flowers in retail or wholesale establishments.

Performs duties as described under Unit Group 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products such as bulbs, cut flowers, seeds, seedlings, fertilisers, pesticides, spraying equipment, gardening tools or clothing, plant holders.

May specialise in a specific range of products and may be designated accordingly, e.g.  
Florist

Job Content Factors

Workers	
FP: GE10y	IP: T1m
HC: ERS	RQ:
Materials	
SM: D2 P1 T2	EQ:
Functions	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E2	SA: S1 I1
Context	
EC: L1	TC: A1
SS: 4	SC: 4 ( vy)
LMS: 3000 (0 %SE)	ASIC: 47,48

**4130-L SALESPERSON (TYRES/VEHICLE ACCESSORIES)**  
Salesman/woman (Tyres/Vehicle Accessories);  
Shop Assistant (Tyres/Vehicle Accessories)

Sells or presents for sale vehicle accessories including tyres in retail or wholesale establishments.

Performs duties as described under Unit Group 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products such as motor vehicle batteries, tyres, tubes, car radios, seat covers, lights, tow bars, mirrors.

May specialise in retail or wholesale selling or in a narrow range of products and may be designated accordingly, e.g.  
Salesperson, Tyres

Job Content Factors

Workers	
FP: GE10y	IP: T1m
HC: ESR	RQ:
Materials	
SM: D2 P1 T2	EQ:
Functions	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E3	SA: S1 I1
Context	
EC: L1	TC: A1
SS: 4	SC: 4 ( vy)
LMS: 10000 (0 %SE)	ASIC: 47,48

**4130-M SALESPERSON (SPORTS EQUIPMENT/ TOYS)**  
Salesman/woman (Sports Equipment/Toys);  
Shop Assistant (Sports Equipment/Toys)

Sells or presents for sale sports equipment, parts, clothing or toys and games in retail or wholesale establishments.

Performs duties as described under Unit Group 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products such as camping gear, sporting equipment, cycles and parts, hobby equipment, toys and indoor games.

May specialise in a particular area of goods or may undertake minor repairs to equipment or toys and may be designated accordingly, e.g.  
Salesperson, Ski Shop  
Sporting Goods Repairer

Job Content Factors

Workers	
FP: GE10y	IP: T1m
HC: ESR	RQ:
Materials	
SM: D2 P1 T2	EQ:
Functions	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E2	SA: S1 I1
Context	
EC: L1	TC: A1
SS: 4	SC: 4 ( vy)
LMS: 3000 (0 %SE)	ASIC: 47,48

**4130-N SALESPERSON (WATCHES/ JEWELLERY)**  
Salesman/woman (Watches/Jewellery); Shop Assistant (Watches/Jewellery)

Sells or presents for sale watches, clocks, and jewellery in retail or wholesale establishments.

Performs duties as described under Unit Group 4130 SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) specifically with products such as watches, clocks, precious stones, silverware, crystal, costume jewellery.

May specialise in a particular range of products, and may be designated accordingly, e.g.  
Salesperson, Gemstones

Job Content Factors

Workers	
FP: GE10y	IP: T1m
HC: ESR	RQ:
Materials	
SM: D2 P1 T2	EQ:
Functions	
MA: D3 R4 M3 L3	
PA: P2 U1 H1 W1 E2	SA: S1 I1
Context	
EC: L1	TC: A1
SS: 4	SC: 4 ( vy)
LMS: 3000 (0 %SE)	ASIC: 47,48

**4130-Z SALESPERSONS/SALES ASSISTANTS (GENERAL PRODUCTS) nec**

This residual group covers salespersons not elsewhere classified in Unit Group 4130, who sell or present for sale products in retail or wholesale establishments and may be designated accordingly, e.g.

Salesman/woman (General Products)  
Shop Assistant (General Products)

**4131 STREET VENDORS, SHOP CANVASSERS AND SALES DRIVERS**

This unit group covers occupations concerned with selling products or soliciting orders on the street or from door-to-door.

Entry Requirements Year 9-10 in some cases.

**Activities include** selling goods such as books, beauty aids, fruit and vegetables and newspapers on the street or from door-to-door, using pushcart, stand, carry case or motor vehicle, or may simply spread wares on footpath; may attract attention by playing chimes or calling out.

#### 4131-A BUYER (SCRAP)

Buys scrap materials such as metal, rags, bottles, rubber and other odd items.

Contacts commercial, industrial and private householders, appraises items, offers price and conveys goods to yard for resale.

##### Job Content Factors

###### Workers

FP: GE NFR IP: T1m  
HC: ESR RQ: L1

###### Materials

SM: D2 P2 T1 EQ: V2

###### Functions

MA: D3 R4 M3 L3  
PA: U1 H1 W1 E3 SA: A1 I1

###### Context

EC: L3 TC: A1  
SS: 7 SC: V

LMS: 240 (50%SE)

ASIC: 47.48

#### 4131-B NEWSPAPER VENDOR Newsboy/girl; News Vendor

Sells newspapers and periodicals to customers at street location.

Obtains newspapers from circulation department or drop point and carries to sales location. Displays newspapers and calls out to attract passers-by. Receives payment for newspapers sold and gives change. Returns unsold newspapers to supplier and pays for newspapers sold.

May sell newspapers from street stand. May deliver newspapers to subscribers on established route or may deliver newspapers to other vendors and direct them in their duties, and may be designated accordingly, e.g.

Newspaper Carrier

##### Job Content Factors

###### Workers

FP: GE NFR IP: T1m  
HC: ESC RQ:

###### Materials

SM: D1 P1 EQ: W2

###### Functions

MA: D3 R4 M3 L3  
PA: U1 H1 W1 E2 SA: S1 I1

###### Context

EC: L4 TC: A1 I1  
SS: V SC: V

LMS: 10000 (0 %SE)

ASIC: 48

#### 4131-C REPRESENTATIVE (METAL MERCHANT)

Buys scrap metal from industrial and commercial establishments and arranges resale.

Contacts organisations where scrap accumulates, negotiates contract for clearance, arranges supply of empty bins, collection details and rate of payment. Attends to problems that arise such as re-negotiation of contracts. Contacts outlets for resale and arranges quantity, delivery and payment.

##### Job Content Factors

###### Workers

FP: GE10y IP: T3m E1y  
HC: ESR RQ: L2

##### Materials

SM: D2 P1 T2 EQ: V2

##### Functions

MA: D3 R4 M3 L3  
PA: C2 H1 S2 W1 E2 SA: A1 I1

##### Context

EC: L4 TC: A1  
SS: 6 SC: 7 ( ny)

LMS: 500 (0 %SE)

ASIC: 47.48

#### 4131-D SALESPERSON (CASH VAN SALES) Salesman/woman (Cash Van Sales)

Drives truck over established route to deliver and sell merchandise, such as bakery or dairy products, on retail or wholesale basis, or services, such as laundering and dry cleaning.

Loads truck with items and delivers to customer's home or place of business. Writes delivery orders and collects payment for deliveries. Picks up empty containers, unsold merchandise, or articles to be cleaned, for return to plant. Calls on prospective customers to solicit new business and informs regular customers of new products or services.

May place stock on shelves or in refrigerators. May set up displays and posters. May co-ordinate the activities of a small group of salespersons engaged in driving vehicles over established routes to sell products or deliver items. May be designated according to product or service sold, e.g.

Laundry Driver Salesman/woman

##### Job Content Factors

###### Workers

FP: GE9-10y IP: T1m  
HC: ESR RQ: L1

###### Materials

SM: D2 P1 T2 EQ: V1

###### Functions

MA: P2 D3 R4 M3 L3  
PA: U1 H1 S2 W2 E2 SA: A1 I1

###### Context

EC: L1 TC: I1  
SS: V SC: V

LMS: 5000 (0 %SE)

ASIC: 47.48

#### 4131-E SALESPERSON (DOOR-TO-DOOR) Canvasser; Salesman/woman (Door-to-Door)

Sells books, magazines and other merchandise, going from door-to-door.

Displays sample products or catalogue and explains desirable qualities of product. Writes orders, delivers goods and receives payment, or passes order to other departments for processing.

May develop lists of prospective customers or follow leads supplied by management. May distribute advertising literature and leave samples. May be designated according to product sold, e.g.

Representative, Beauty Products

Representative, Household Products

Salesperson, Encyclopaedia

##### Job Content Factors

###### Workers

FP: GE9-10y IP: T1m  
HC: ESI RQ:

###### Materials

SM: D2 P1 T2 EQ:

<i>Functions</i>	
MA: P2 D3 R4 M3 L3	
PA: U1 H1 W1 E2	SA: A1 I1
<i>Context</i>	
EC: L3	TC: I1
SS: 5	SC: 5 (vy)
LMS: 5000 (20%SE)	ASIC: 47,48

#### 4131-F STREET VENDOR

Peddles goods, such as fruit, vegetables or ice cream, on street.

Loads goods onto push-cart or drives truck and transports goods to street locations such as newspaper stand. Hands goods to customer, receives payment and gives change as necessary.

May attract customers by ringing bell, playing recorded music, chanting song or calling out information. May have permanent location such as newspaper stand, and sell regularly at that point. May be designated according to product sold, e.g.

Fruit Vendor

Ice Cream Vendor

#### *Job Content Factors*

##### *Workers*

FP: GE NFR

HC: ESC

IP: T1m

RQ: L1

##### *Materials*

SM: P1 T2

EQ: V2 W2

##### *Functions*

MA: P2 D3 R4 M3 L3

PA: U2 H1 W1 E2

SA: A1 I1

##### *Context*

EC: L3

SS: V

TC: A1

SC: V

LMS: 5000 (50%SE)

ASIC: 47,48

### 4132 SALES ATTENDANTS AND CHECK-OUT OPERATORS

This unit group covers occupations concerned with selling products or services at drive-in or self-serve coin-operated service facilities.

**Entry Requirements** Year 9 in some cases.

**Activities include** taking orders from customers and supplying fuel, lubricants, accessories or food, tickets or tokens, or advising customers on the use of mechanisms for self-service.

May involve simple maintenance of equipment or arranging for equipment to be serviced, emptying coin or token containers, cleaning the selling or service area or directing customers to correct location within establishment.

#### 4132-A SERVICE STATION ATTENDANT Lubritorium Attendant; Self-Service Console Operator (Service Station)

Sells fuel, lubricants and miscellaneous automotive accessories, and services motor vehicles at retail service stations.

Fills fuel tank with type and amount of fuel specified by the customer. Measures level of oil in engine using dipstick; checks water level in radiator and battery; measures air pressure in tyres. Replenishes required amounts of oil, water and air. Washes windscreen of vehicle, offers advice on minor problems. Receives money and gives change. Cleans service station apron and surrounds.

#### *Related Occupation*

Occupation 4132-B : Checkout Operator

#### *Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T1m
HC: RIS	RQ:
<i>Materials</i>	
SM: P1 T1	EQ:
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 H2 W1 E2	SA: S1 I1
<i>Context</i>	
EC: L3	TC: I1
SS: 2	SC: 3 (vy)
LMS: 20000 (0 %SE)	ASIC: 48

#### 4132-B CHECK-OUT OPERATOR Check-out Cashier

Operates cash register and receives cash payment or fills out credit card slip in return for goods at check-out counter of retail establishment.

Receives customer's self-selected goods at check-out counter of service station for example. Registers cost of separate items, tallies total or notes amount of product selected at console. Receives payment in cash or by means of credit card and tenders change as necessary.

May wrap goods or pack them. May direct customers to product location in store. May call supervisor to attend to customer's needs or complaints.

#### *Job Content Factors*

<i>Workers</i>	
FP: GE9y	IP: T1w
HC: CS	RQ: D2
<i>Materials</i>	
SM: P1 T1	EQ: K1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 W1 E1	SA: S1 I1
<i>Context</i>	
EC: L1	TC: A1
SS: 4	SC: 4 (vy)
LMS: 20000 (0 %SE)	ASIC: 48

4132-C DRIVE-IN ATTENDANT (THEATRE)

Assists patrons at drive-in theatre by performing any combination of the following duties.

Collects admission fees and issues tickets at entrance to drive-in. Directs patrons to parking space. Patrols theatre to prevent disorderly conduct.

May watch over children in playground.

Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: RSC	RQ:
<i>Materials</i>	
SM: P1 T2	EQ:
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: S2 W2 E1	SA: A1 S2 I1
<i>Context</i>	
EC: L1	TC: I1
SS: V	SC: V
LMS: 5000 (0 %SE)	ASIC: 48

4132-D DRIVE-IN ATTENDANT (FOOD)

Sells various prepared food items to car customers at drive-in locations.

Meets car on entry, advises customer when required as to sales items, takes order, obtains items from preparation area and delivers to car. Accepts payment, gives change, cleans drive-in area.

Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: RIS	RQ:
<i>Materials</i>	
SM: P1 T2	EQ:
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: H2 W1 E2	SA: S1 I1

<i>Context</i>	
EC: L1	TC: A1 I2
SS: 3	SC: 3 ( vy)
LMS: 10000 (0 %SE)	ASIC: 48

4132-E VENDING MACHINE ATTENDANT

Services vending machines of a certain type in a specified area.

Loads transport with required articles and equipment and proceeds along route. Clears money from container in machines and checks monitoring system. Refills storage area and checks distribution mechanism of each machine. Carries out simple mechanical maintenance, replaces parts or complete machine where necessary. Solicits additional customers where and when possible. Keeps stock records and accounts for monies received.

May specialise in servicing a particular type of vending machine and be designated accordingly, e.g.

- Cigarette Machine Attendant
- Food/Drink Machine Attendant
- Pin Ball Machine Attendant

Related Occupation

Occupation 4296-Z : Collector, Parking Meter

Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1m
HC: ESR	RQ: L1
<i>Materials</i>	
SM: P1 T1	EQ: S2 V2
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 W1 E2	SA: S1 I1
<i>Context</i>	
EC: L1	TC: A1
SS: V	SC: V
LMS: 2000 (0 %SE)	ASIC: 48

4139 OTHER SALESPERSONS AND RELATED OCCUPATIONS

This residual unit group covers occupations, concerned with selling or presenting goods for sale, which are not elsewhere classified in Minor Group 413.

**Activities include** advancing money on goods lodged for security, demonstrating goods for sale, auctioning or assisting in the auctioning of goods at a licenced auction room, general counter sales work, receiving and giving goods that have been serviced, arranging travel formalities, making reservations and selling tickets, and renting goods for short term use.

Related Occupations

Unit Group 7121 : Storemen/women and Related Occupations

4139-A AUCTIONEER

Sells property or merchandise at public or private auctions.

Inspects articles for auction, lists or arranges for items to be catalogued. Arranges publicity and conditions of sale. Advises conditions of sale to prospective bidders, describes articles as they are presented and calls for bids, accepts or rejects offers made. Directs staff to dispose of articles and arrange payment. Maintains records of sale.

May also be a valuer and set price for goods. May also be a real estate agent and perform other real estate work as well as intermittent auctions. May specialise in a particular type of article and be designated accordingly, e.g.

- Auctioneer, Furniture
- Auctioneer, Livestock
- Auctioneer, Real Estate
- Auctioneer, Wool

**Job Content Factors**

<b>Workers</b>	
FP: GE10-12y PSP1-5y(B)	IP: T1y
HC: ESC	RQ: S1
<b>Materials</b>	
SM: D2 P1 T1	EQ:
<b>Functions</b>	
MA: D2 R2 M3 L2	
PA: W1 E1	SA: S1 I1 B2 R4
<b>Context</b>	
EC: L1	TC: A1 I2
SS: 2	SC: V
LMS: 1500 (10%SE)	ASIC: 47,48,63

**4139-B AUCTION ROOM ATTENDANT**

Assists auctioneer to assemble and arrange articles for sale.

Receives articles into room or store from transporting vehicle, lists on catalogue and adheres number for identification. Arranges items in sequence and position for ready display; displays article during auction; places article in specified position when bidding finishes. Prepares item for dispatch, if sold.

May alert auctioneer to bidder during auction. May approach bidder for details to record sale and then process this information. May understudy auctioneer and under supervision, obtain auctioneering experience.

**Job Content Factors**

<b>Workers</b>	
FP: GE9y	IP: T1m
HC: ESC	RQ:
<b>Materials</b>	
SM: P1 T1	EQ:
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E3	SA: S1 I1
<b>Context</b>	
EC: L1	TC: A1
SS: 2	SC: 6 (vy)
LMS: 3000 (0 %SE)	ASIC: 47,48,63

**4139-C DEMONSTRATOR (SALES)**

Demonstrates articles for sale in wholesale, retail, industrial establishments, exhibitions or in private homes.

Arranges display, demonstrates and explains function and benefits of item.

May sell or take orders at demonstration.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T3-12m
HC: ESC	RQ: U2 D2
<b>Materials</b>	
SM: D2 P1 T1	EQ:
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: S2 W1 E2	SA: S1 I1
<b>Context</b>	
EC: L1	TC: A1 I2
SS: 4	SC: 4 (vy)
LMS: 1000 (0 %SE)	ASIC: 47,48

**4139-D PAWNBROKER**

Estimates value of item lodged as security for money and advances cash to customer.

Examines items to determine condition and value, weighs precious metal. Inspects gems and articles of value, ascertains pledge value based on value, wholesale price and experience. Lends money, issues pawn ticket, records loan. Computes interest and receives payment when items redeemed. Sells unredeemed items.

May perform duties as described under Master Title SUPERVISOR MANAGER.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: E2y
HC: EIC	RQ: S1
<b>Materials</b>	
SM: P1 T1	EQ:
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: U1 H2 S2 W1 E2	SA: A1 S2 I1 P2
<b>Context</b>	
EC: L1	TC: A1
SS: 6	SC: 7 (vy)
LMS: 50 (90%SE)	ASIC: 48

**4139-E RENTAL SALESPERSON  
Rental Clerk**

Rents equipment, articles or items or varying types to individuals, business organisations etc.

Develops an awareness or knowledge of the item, articles etc. Selects appropriate one for customer's needs, arranges administrative details such as verification of customer's credentials, cost, duration of rental etc.

May specialise in a particular type of rental and be designated accordingly, e.g.

Rental Clerk, Car  
Rental Clerk, Film  
Rental Clerk, TV  
Rental Clerk, Tools and Equipment

**Job Content Factors**

<b>Workers</b>	
FP: GE9-10y	IP: T1m
HC: ESR	RQ:
<b>Materials</b>	
SM: D2 P1 T1	EQ:
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: S1 W2 E1	SA: S1 I1 P2
<b>Context</b>	
EC: L1	TC: A1
SS: 3	SC: 4 (vy)
LMS: 1000 (0 %SE)	ASIC: 63

**4139-F SALESPERSON (SERVICES, GENERAL)  
Counter Clerk (Service); Salesman/woman  
(Services, General)**

Accepts articles for servicing such as dry-cleaning, articles for repair etc. in a retail sales or service establishment.

Quotes price and estimates completion date. Documents article, dispatches to appropriate service department. Returns article when service completed, accepts payment. Records cash receipts, accounts for money.

May keep record of articles received and serviced. May sell accessories or parts of products stocked.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T1m
HC: ESC	RQ:
<b>Materials</b>	
SM: D2 I2 P1	EQ:
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: S1 E1	SA: S1 I1
<b>Context</b>	
EC: L1	TC: A1
SS: 4	SC: 4 (vy)
LMS: 5000 (0 %SE)	ASIC: 48

#### 4139-G CONDUCTOR (BUS/TRAM) Ticket Seller (Bus/Tram)

Issues tickets and receives payment for travel on buses and trams of a public transport system.

Receives necessary tickets and small change from depot ticket clerk, boards appropriate tram car with driver and signals readiness to proceed by ringing communication bell. Accepts money from passengers, issues appropriate ticket, gives change, and indicates the need to stop or start vehicle by ringing communication bell for driver's information. Works regular route to gain familiarity with area. Returns residual tickets and cash obtained at close of shift.

##### Job Content Factors

###### Workers

FP: GE NFR

IP: T1-2w

HC: REC

RQ: D1 V1

###### Materials

SM: P1 T2

EQ: K1

###### Functions

MA: D3 R4 M3 L3

PA: U1 W1 B1 E2

SA: L1 I1

###### Context

EC: L1

TC: A1 I1 R1

SS: 6

SC: 8 (vy)

LMS: 2000 (0 %SE)

ASIC: 5102

#### 4139-H TICKET SALESPERSON Booking Clerk; Ticket Clerk; Ticket Seller; Ticket Sales Clerk

Makes and confirms reservations and sells tickets to passengers travelling by air, road, rail or water transport, or sells tickets at entertainment, sporting or amusement venues or lottery offices and betting shops.

Accepts customers' written or oral request and money; issues ticket or receipt and gives change where necessary. Where transport is involved ascertains routes, services and arranges ticket reservations, using timetables, manuals, reference guides. Answers inquiries regarding departures, arrivals, destinations and other pertinent information. Telephones travellers to inform them of changes in travelling arrangements, or to cancel or confirm reservation. Keeps inventory of available passenger space. Informs load control personnel, at various arrival and departure points, of changes in passenger itinerary, so as to control space and ensure proper use of seating capacity. Computes cost of tickets and issues baggage receipts.

May check baggage and direct passenger to designated area for loading. May announce arrival and departure of buses, planes, and trains. May arrange accommodation bookings. May work solely by telephone and be designated accordingly, e.g.

Telephone Bookings Clerk

Telephone Ticket Sales Clerk

Telephone Reservations Sales Clerk

##### Job Content Factors

###### Workers

FP: GE9y

IP: T1m

HC: CSI

RQ:

###### Materials

SM: P1 T1

EQ:

###### Functions

MA: D3 R4 M3 L3

PA: U1 H1 S1 W2 E1

SA: S1 I1

##### Context

EC: L1

TC: A1

SS: 6

SC: 7 (vy)

LMS: 5000 (0 %SE)

ASIC: 48,91

#### 4139-I TRAVEL ADVISER Travel Clerk

Assists travel agent in arranging travel for tourists. Provides information and arranges the various aspects of each tour.

Answers queries, offers suggestions, provides literature, discusses travel routes, times, rates and accommodation to ascertain type of travel desired. Arranges for tickets, accommodation, and where necessary advises on passport and medical requirements.

May specialise in a particular aspect of travel work such as reservation of accommodation or ticket purchase and allocation and be designated accordingly, e.g.

Reservation Clerk

Ticket Clerk (Travel)

##### Job Content Factors

###### Workers

FP: GE9-10y

IP: T1m

HC: CSE

RQ: U2

###### Materials

SM: D2 I2 P1

EQ:

###### Functions

MA: D3 R4 M3 L3

PA: S1 E1

SA: S1 I1

###### Context

EC: L1

TC: A1

SS: 2

SC: 8 (vy)

LMS: 20000 (0 %SE)

ASIC: 55

#### 4139-J BUYER (GENERAL)

Buys goods for resale in a wholesale or retail establishment, according to organisational planning.

Continually reviews establishment requirements regarding stock levels, space and staff to ensure maximum profits. Interviews suppliers and salespersons to replenish stock levels and obtain favourable purchase arrangements for commodities. Supervises delivery arrangements, checks mark up, oversights display and marketing arrangements. Compiles budget needs of department(s) under control, participates in long-term planning and sales promotion, liaises with store manager(s).

##### Job Content Factors

###### Workers

FP: GE10y

IP: E10y

HC: ECS

RQ: U1

###### Materials

SM: D1 P2 T1

EQ:

###### Functions

MA: I2 P1 D2 R3 M3 L2

PA: S2 W1 E1

SA: A1 S2 B2 R4

###### Context

EC: L1

TC: A1

SS: 4

SC: V

LMS: 3500-4500(0 %SE)

ASIC: 47,48

#### 4139-Z SALESPERSONS AND RELATED OCCUPATIONS nec

This residual group covers sales workers, not elsewhere classified in Unit Group 4139.

## **MAJOR GROUP 42**

### **SERVICE OCCUPATIONS**

Service Occupations are classified in the following minor groups.

- 420 Exclusively Military Occupations
- 421 Protective and Investigative Occupations
- 422 Inspectors and Regulating Officers
- 423 Food and Beverage Preparation and Related Service Occupations
- 424 Accommodation Occupations
- 425 Cleaning, Laundering and Related Occupations
- 426 Hairdressers, Beauticians and Related Occupations
- 429 Other Service Occupations

**420 EXCLUSIVELY MILITARY OCCUPATIONS**  
These occupations have not been coded at occupational level in ASCO

## 421 PROTECTIVE AND INVESTIGATIVE OCCUPATIONS

### 4210 SUPERVISORS, POLICE OCCUPATIONS

4210-A Commissioned Police Officer  
4210-B Officer-in-Charge, Police Station  
4210-C Officer-in-Charge, Police Special Section  
4210-D Officer-in-Charge, Police Training Institution

### 4211 SUPERVISORS, FIRE-FIGHTING OCCUPATIONS

4211-A Chief Officer, Fire Brigade  
4211-B Deputy Chief Fire Officer  
4211-C Shift Supervisor, Fire Brigade  
4211-D Fire Prevention Officer

### 4212 SUPERVISORS, PRISON OFFICERS AND SECURITY GUARD OCCUPATIONS

4212-A Chief Officer, Prison  
4212-B Security Officer, Manager/Supervisor

### 4213 POLICE OCCUPATIONS

4213-A Police Officer, General Duties  
4213-B Detective  
4213-C Police Officer, Protective Service  
4213-D Police Officer, Scientific Branch  
4213-Z Police Occupations nec

### 4214 FIRE-FIGHTING OCCUPATIONS

4214-A Airport Fire-Fighter  
4214-B Fire-Fighter (General)

### 4215 PRISON OFFICER OCCUPATIONS

4215-A Prison Officer

### 4216 INVESTIGATORY OCCUPATIONS

4216-A Railway Investigator  
4216-B Inquiry Agent  
4216-C Security Officer, Retail  
4216-Z Investigatory Occupations nec

### 4217 GUARDS AND RELATED SECURITY OCCUPATIONS

4217-A Railway Patrol Officer  
4217-B Armoured Car Driver/Escort  
4217-C Security Officer, Mobile  
4217-D Security Officer  
4217-E Front-of-House Security Officer  
4217-F Security Officer, Airport Pre-boarding  
4217-Z Guards and Related Security Occupations nec

### 4219 OTHER PROTECTIVE AND INVESTIGATIVE OCCUPATIONS

4219-Z Protective and Investigative Occupations nec

## 422 INSPECTORS AND REGULATING OFFICERS

### 4220 SUPERVISORS, INSPECTORS AND REGULATING OFFICERS

4220-A Supervisor, Inspectors and Regulating Officers

### 4221 INSPECTORS AND REGULATING OFFICERS, PRIMARY INDUSTRY AND CONSERVATION

4221-A Primary Products Inspector, Animals  
4221-B Primary Products Inspector, Plants  
4221-C Wildlife Officer  
4221-D Fisheries Inspector  
4221-E Stream Control Officer  
4221-F Boring Inspector/Supervisor  
4221-G Inspector, Humane Society  
4221-Z Inspectors and Regulating Officers, Primary Industry and Conservation nec

### 4222 INSPECTORS AND REGULATING OFFICERS, HEALTH, SAFETY AND WORKING CONDITIONS

4222-A Safety Inspector  
4222-B Health Inspector  
4222-C Arbitration Inspector  
4222-D Safety Officer  
4222-E Area/Territory Supervisor, Service Stations  
4222-F Accident Prevention Officer, Insurance  
4222-G Travel Accommodation Inspector  
4222-H Fire Safety Inspector  
4222-I Traffic Inspector  
4222-Z Inspectors and Regulating Officers, Health, Safety and Working Conditions nec

### 4223 OTHER INSPECTORS AND REGULATING OFFICERS

4223-A Customs Investigator  
4223-B Field Manager, Postal Services  
4223-Z Inspectors and Regulating Officers nec

## 423 FOOD AND BEVERAGE PREPARATION AND RELATED SERVICE OCCUPATIONS

### 4230 SUPERVISORS, FOOD AND BEVERAGE PREPARATION AND RELATED SERVICE OCCUPATIONS

4230-A Executive Chef  
4230-B Sous-Chef  
4230-C Managing Supervisor, Dining Establishment  
4230-D Caterer  
4230-E Managing Supervisor, Fast Food Outlet  
4230-F Food Supervisor  
4230-G Supervisor, Bar Attendants  
4230-H Head Waiter/Waitress

### 4231 COOKING OCCUPATIONS, TRADE

4231-A Chef, General  
4231-B Cook, Qualified  
4231-C Cook, Marine  
4231-D Cook, Foreign Foods

### 4232 APPRENTICE COOKING OCCUPATIONS

4232-A Apprentice Cook

### 4233 COOKING OCCUPATIONS, NON-TRADE

4233-A Cook, Domestic  
4233-B Cook, Breakfast  
4233-C Cook, Fast Food  
4233-Z Cooking Occupations, Non-Trade nec

### 4234 BEVERAGE PREPARATION AND BAR SERVICE OCCUPATIONS

4234-A Bar Attendant

### 4235 FOOD AND BEVERAGE SERVING OCCUPATIONS

4235-A Waiter/Waitress, Formal Service  
4235-B Wine Waiter/Waitress  
4235-C Host/Hostess  
4235-D Waiter/Waitress, General

### 4239 OTHER FOOD AND BEVERAGE PREPARATION AND RELATED SERVICE OCCUPATIONS

4239-A Kitchenhand  
4239-B Canteen Assistant  
4239-Z Food and Beverage Preparation and Related Service Occupations nec

# OCCUPATIONS

## 424 ACCOMMODATION OCCUPATIONS

### 4240 SUPERVISORS, ACCOMMODATION AND RELATED OCCUPATIONS

- 4240-A Building Supervisor
- 4240-B Managing Supervisor, Hotel/Motel/Lodging House
- 4240-C Executive Housekeeper
- 4240-D Hotel Concierge
- 4240-E Manager, Lodging Establishment
- 4240-F Park Manager, Caravan
- 4240-G Recreation Camp Warden
- 4240-H Caretaker

### 4241 ACCOMMODATION SUPPORT OCCUPATIONS

- 4241-A Handyman/woman
- 4241-B Groundsman/woman, Lodging and Accommodation
- 4241-C Houseman/maid

## 425 CLEANING, LAUNDERING AND RELATED OCCUPATIONS

### 4250 SUPERVISORS, LAUNDERING, DRY-CLEANING AND RELATED OCCUPATIONS

- 4250-A Managing Supervisor, Laundering and Dry-Cleaning Establishment
- 4250-B Foreman/woman, Laundering and Dry-Cleaning Occupations

### 4251 CLEANING OCCUPATIONS

- 4251-A Industrial Cleaner
- 4251-B Commercial Cleaner
- 4251-C Hospital Cleaner
- 4251-D Window Cleaner
- 4251-E Carpet Cleaner
- 4251-F Vehicle Cleaner
- 4251-G Cabin Cleaner
- 4251-H Domestic Cleaner
- 4251-Z Cleaning Occupations nec

### 4252 DRY-CLEANING OCCUPATIONS

- 4252-A Dry-Cleaner

### 4253 DRY-CLEANING APPRENTICE OCCUPATIONS

- 4253-A Apprentice Dry-Cleaner

### 4254 WASHING AND DRYING MACHINE OCCUPATIONS

- 4254-A Washman/woman

### 4255 PRESSING OCCUPATIONS

- 4255-A Presser, Laundry

### 4259 OTHER CLEANING, LAUNDERING AND RELATED OCCUPATIONS

- 4259-A Laundry Machine Attendant
- 4259-B Laundry Assistant

## 429 OTHER SERVICE OCCUPATIONS

### 4290 FUNERAL SERVICE OCCUPATIONS

- 4290-A Funeral Director
- 4290-B Embalmer
- 4290-C Crematorium Operator
- 4290-D Funeral Director's Assistant
- 4290-E Crematorium Assistant

### 4291 CHILD CARE AND RELATED OCCUPATIONS

- 4291-A Pre-school Aide, Non-Certificated
- 4291-B Teacher's Aide
- 4291-C Child Care Group Worker
- 4291-D Creche Attendant
- 4291-E Hostel Parent
- 4291-Z Child Care and Related Occupations nec

### 4292 GUIDE OCCUPATIONS

- 4292-A Tourist Guide
- 4292-B Tour Leader
- 4292-C Guide, Establishment

### 4293 FRONT-OF-HOUSE ENTERTAINMENT AND RELATED OCCUPATIONS

- 4293-A Door Attendant
- 4293-B Usher/Usherette, Entertainment
- 4293-C Attendant, Sporting
- 4293-D Ticket Taker

### 4294 FLIGHT ATTENDANTS AND RELATED OCCUPATIONS

- 4294-A Flight Service Director
- 4294-B Flight Attendant
- 4294-C Ground Agent

### 4295 MARINE/RAIL PORTERS AND STEWARD/ STEWARDESS OCCUPATIONS

- 4295-A Marine Steward/Stewardess
- 4295-B Railway Porter, Luggage
- 4295-C Railway Conductor, Sleeping Car
- 4295-D Hotel Porter

### 4296 COLLECTORS

- 4296-A Debt Collector
- 4296-Z Collectors nec

### 4297 MUSICAL INSTRUMENT REPAIRING OCCUPATIONS

- 4297-A Piano Tuner/Repairer
- 4297-B Stringed Musical Instrument Maker/Repairer
- 4297-Z Musical Instrument Repairing Occupations nec

### 4299 OTHER SERVICE OCCUPATIONS

- 4299-A Interpreter
- 4299-B Introductory Consultant
- 4299-C Croupier
- 4299-D Lift Operator
- 4299-E Car Park Attendant
- 4299-F Pest Control Operator
- 4299-G Valuer (General)
- 4299-H Housekeeper
- 4299-Z Service Occupations nec

## 426 HAIRDRESSERS, BEAUTICIANS AND RELATED OCCUPATIONS

### 4260 SUPERVISORS, HAIRDRESSERS, BEAUTICIANS AND RELATED OCCUPATIONS

- 4260-A Managing Supervisor, Hairdressing Establishment
- 4260-B Managing Supervisor, Beauty Establishment
- 4260-C Managing Supervisor, Massage Establishment

### 4261 HAIRDRESSING AND RELATED OCCUPATIONS

- 4261-A Hairdresser, Ladies'
- 4261-B Hairdresser, Gentlemen's
- 4261-C Hairdresser, Unisex

### 4262 APPRENTICE HAIRDRESSING OCCUPATIONS

- 4262-A Apprentice Hairdresser, Ladies'
- 4262-B Apprentice Hairdresser, Gentlemen's

### 4263 BEAUTICIANS AND RELATED OCCUPATIONS

- 4263-A Beautician
- 4263-B Electrologist

### 4264 MASSAGE OCCUPATIONS

- 4264-A Masseur/Masseuse

### 4269 OTHER HAIRDRESSERS, BEAUTICIANS AND RELATED OCCUPATIONS

- 4269-A Beauty Clinic Assistant
- 4269-Z Hairdressers, Beauticians and Related Occupations nec

**MINOR GROUP 420**  
**EXCLUSIVELY MILITARY OCCUPATIONS**

This minor group includes occupations in the defence forces concerned with providing for the surveillance and protection of Australian territory, air space and coastal waters; and providing aid to civil authorities, as requested, in situations such as civil disorder, natural disaster or other emergencies. This minor group is designed specifically for Census purposes and does not include individual occupational definitions.

## MINOR GROUP 421 PROTECTIVE AND INVESTIGATIVE OCCUPATIONS

Protective and Investigative Occupations are classified in the following unit groups.

- 4210 Supervisors, Police Occupations
- 4211 Supervisors, Fire-Fighting Occupations
- 4212 Supervisors, Prison Officers and Security Guard Occupations
- 4213 Police Occupations
- 4214 Fire-Fighting Occupations
- 4215 Prison Officer Occupations
- 4216 Investigatory Occupations
- 4217 Guards and Related Security Occupations
- 4219 Other Protective and Investigative Occupations

### 4210 SUPERVISORS, POLICE OCCUPATIONS

This unit group covers occupations concerned with the supervision of general police officers in all aspects of their duties.

**Entry Requirements** a para-professional certificate and 3-25 years' experience. Specialist supervisors may possess additional experience and/or qualifications.

**Activities include** advising, overseeing and controlling subordinate staff in the detection and prevention of crime; directing and controlling traffic; investigating and apprehending suspected law breakers; locating missing persons or property; controlling scientific testing and investigation; prosecuting and presenting court proceedings; and performing water patrol duties, company fraud investigation and other specialist operations.

*Related Occupations*

Unit Group 1020 : General Management Occupations

#### 4210-A COMMISSIONED POLICE OFFICER

Plans, directs and co-ordinates the operations of a police force at regional or branch level.

Assesses effectiveness of region or sub-district and recommends operations in accordance with laws and regulations. Resolves minor disciplinary problems or other areas of difficulty reported by subordinates and refers more serious problems to Police Commissioner. Investigates complaints from public concerning members of the police force. Undertakes annual inspection of each sub-district office or police station under area of jurisdiction. Investigates and evaluates duties of police officers under jurisdiction to ensure continuing operational efficiency. Prepares reports relating to officers' efficiency for promotions selection board. Submits reports to superior on matters relating to regional operation. Delegates command to subordinate officers in cases of major investigation and emergency. Estimates regional or branch

expenditure for services and supplies and prepares annual budget for approval by Police Commissioner. Maintains an active role in community affairs.

May represent Police Commissioner at major public ceremonies or escort VIPs when delegated by superior. May be designated according to rank or branch in the police force, e.g.

- Chief Inspector
- Chief Superintendent, Criminal Investigation Branch
- Metropolitan Area Superintendent
- Protective Service Inspector
- Senior Inspector

*Job Content Factors*

*Workers*

FP: GE12y PSP3m(B)

HC: SRI

IP: E20-25y

RQ: P1 U2 D1 V2

*Materials*

SM: D2 I2 P1

EQ:

Functions

MA: I2 A1 P1 D2 R2 M3 L1

PA: S1 W2 E1

SA: S1 L2 I2 T2 M1 R2-3

Context

EC: L1

TC: A1 I2 T2

SS: I0

SC: I1 (vy)

LMS: 8 (0 %SE)

ASIC: 8492

**4210-B OFFICER-IN-CHARGE, POLICE STATION**  
**Shift Officer, Police Station**

Supervises and co-ordinates activities of shift personnel at a police station or on patrol.

Prepares and amends daily and weekly staffing rosters. Parades personnel at beginning of shift and ensures that they are dressed and equipped according to regulations. Assigns duties to patrol personnel, and informs them of departmental orders, unusual occurrences, stolen property or missing or wanted persons. Calls for regular progress reports as required. Ensures that radio, telephone, teletype and information-computer terminals are manned at all times. Maintains contact with communications branch in order to allocate patrol officers as required in cases of emergency. Ensures that prisoners are thoroughly searched when brought into station and questioned in accordance with regulations. Ensures that prisoners are regularly observed in cells and that they receive medical attention when needed. Checks that articles confiscated from prisoners or handed in to station as lost property are tagged and stored in accordance with procedures laid down through routine orders. Arranges for prisoners to be escorted to court or released in accordance with established procedures. Conducts initial investigation into allegations of police misconduct or neglect of duty. Informs superior officers of major accidents and serious crimes. Attends to telephone inquiries and queries from patrol officers and general public on matters relating to law and procedure. Liaises with other government departments to provide patrol officers for specific tasks if required. Checks logbooks and records kept by station personnel and patrol officers to ensure proper recording of information. Writes reports and verbally informs relieving shift officer of incidents during shift, complaints received and investigations made.

May prepare and correct files and court briefs and give evidence and testify or present police prosecution case in court. May conduct sobriety tests on persons suspected of driving under the influence of alcohol or drugs. May be in-charge of traffic patrol and be designated accordingly or according to rank, e.g.

Officer-in-Charge, Traffic Patrol  
Shift Sergeant

Job Content Factors

Workers

FP: GE12y PSP3m(B)

IP: E8y

HC: SRI

RQ: P1 D1 V1

Materials

SM: D1 P2

EQ: K2

Functions

MA: I2 A1 P1 D2 R3 L2

PA: S1 W2 E2

SA: S1 L2 I1 B1 R3-4

Context

EC: L1 C13

TC: A1 I1

SS: 8

SC: 9 (vy)

LMS: 5000 (0 %SE)

ASIC: 8492

**4210-C**

**OFFICER-IN-CHARGE, POLICE SPECIAL SECTION**  
**Officer-in-Charge, Police Special Branch;**  
**Officer-in-Charge, Police Special Squad**

Supervises and controls police personnel processing specialised knowledge for the performance of their duties. Directs and participates in the work of the section.

Administers a special unit of a police force. Reports to senior management on all aspects of the unit and assumes responsibility for efficient operation of it. Oversees staffing, accommodation, finance and equipment and supply requirements. Implements operational program and ensures compliance with it. Participates in work of the unit to ensure functional viability and adherence to standards and procedures.

May perform the duties of the staff supervised in certain circumstances and be designated accordingly, e.g.

Officer-in-Charge, Police Diving Section  
Superintendent/Inspector, Forensic Science Branch  
Superintendent/Inspector, Fraud Squad  
Superintendent/Inspector, Police Air Wing  
Superintendent/Inspector, Water Police

Job Content Factors

Workers

FP: GE12y PSP3m(B)

IP: E8-20y

HC: RSI

RQ: L2 S2 P1 U2 D1 V2 A2

Materials

SM: D2 P2

EQ: V2

Functions

MA: I2 A1 P1 D2 R2 M3 L1

PA: S1 W2 E1

SA: S1 L2 I2 M2 B1 R2-3

Context

EC: L1

TC: A1 I2 T2

SS: I0

SC: I1 (vy)

LMS: 1000 (0 %SE)

ASIC: 8492

**4210-D OFFICER-IN-CHARGE, POLICE TRAINING INSTITUTION**

Directs and administers the operation of a police training institution.

Plans and administers the day-to-day operation of a police training establishment providing instruction for new entrants, advanced instruction or senior level courses. Oversees staffing, accommodation, finance, equipment, and course planning. Implements functional procedures and ensures their operation. Complies with force procedures and regulations. Reports to senior management and recommends changes and improvements as required.

May undertake instructional work in certain circumstances or at some establishments.

Job Content Factors

Workers

FP: GE12y PSP3m(B)

IP: E3-5y

HC: SRI

RQ: U1

Materials

SM: D2 I2 P2

EQ:

Functions

MA: I2 A2 P1 D2 R2 M3 L1

PA: S1 W2 E1

SA: S1 L2 M1 R3-2

Context

EC: L1

TC: A1 T2

SS: I0

SC: I1 (vy)

LMS: 8 (0 %SE)

ASIC: 8492

4211 SUPERVISORS, FIRE-FIGHTING OCCUPATIONS

This unit group covers occupations concerned with planning, organising and directing the activities of a fire brigade, or sections of a fire brigade.

**Entry Requirements** Year 10-11 plus 1-25 years' related work experience.

**Activities include** planning organising and directing at senior level; organising and controlling in various sections of the brigade; detecting fire hazards; recommending appropriate fire prevention methods; inspecting fire-fighting equipment for serviceability and controlling the activities of personnel engaged in fire-fighting duties.

*Related Occupations*

Unit Group 1020

: General Management Occupations

4211-A CHIEF OFFICER, FIRE BRIGADE  
Chief Fire Officer

Plans, organises and directs fire-fighting and fire prevention activities of a fire brigade.

Performs duties as described under Master Title MANAGER. Organises and directs fire fighting and prevention programs, safety campaigns and building inspections. Responsible for maintenance, repair and replacement programs for fire-fighting equipment, fire stations and other brigade property, and training of personnel in fire-fighting methods and use of equipment. Develops rules and regulations for efficient operation of brigade. Consults with Fire Brigade Board regarding major policy determinations and implements decisions.

*Job Content Factors*

<i>Workers</i>	
FP: GE10-11y	IP: T3m E20-25y
HC: R1E	RQ: P2 U2 D2
<i>Materials</i>	
SM: D2 P2 T2	EQ: P2 S2 N2
<i>Functions</i>	
MA: I2 A2 P1 D1 R2 M3 L1	
PA: S1 W2 E2	SA: S1 L2 I2 T2 M1 R3-2
<i>Context</i>	
EC: T2 L3	TC: A1 I2
SS: I0	SC: I1 (vy)
LMS: 8 (0 %SE)	
ASIC: 8494	

4211-B DEPUTY CHIEF FIRE OFFICER  
Assistant Chief Fire Officer

Supervises and co-ordinates activities and resources of one or more departments or branches within a fire brigade.

Administers and controls personnel and training policies of all fire-fighting resources in a prescribed metropolitan, country or local government area. Ensures that departments, branches and shifts are adequately staffed at all times. Administers the activities of the fire prevention department, breathing apparatus and rescue branch, technical services, and supplies depot. Organises and directs fire-fighting activities at large fires or emergencies. Co-ordinates and participates in inspections of brigade buildings and equipment to ensure compliance with established maintenance standards. Explains departmental policies and regulations to subordinates. Ensures that supplies for fire stations and appliances are requisitioned as required and that appropriate records are kept. Prepares annual budget for department and controls departmental expenditure. Participates in discussions with other deputy or

assistant chief officers or with the fire brigade chief officer, on matters such as expansion of services or acquisition of equipment.

May assume command of fire brigade in absence of chief officer. May be responsible for a particular department within a fire brigade and be designated accordingly, e.g.

Assistant Chief Officer, Fire Prevention Department  
Assistant Chief Officer, Metropolitan Fire District

*Job Content Factors*

<i>Workers</i>	
FP: GE10-11y	IP: T3m E20y
HC: R1E	RQ: L1 S2 P2 U2 D2 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: V2
<i>Functions</i>	
MA: A2 P1 D2 R2 M3 L1	
PA: C2 H2 S1 W2 B2 E2	SA: S1 I2 M1 R3
<i>Context</i>	
EC: T2 L3	TC: A1 I2 T2
SS: I0	SC: I0 (vy)
LMS: 8 (0 %SE)	
ASIC: 8494	

4211-C SHIFT SUPERVISOR, FIRE BRIGADE  
Shift Officer, Fire Brigade; Shift  
Superintendent, Fire Brigade; Shift  
Supervisor, Airport Fire Crew

Supervises and co-ordinates activities of a shift composed of all fire stations and fire-fighting resources in a prescribed area or district, or of one or more fire crews, and ensures maintenance of a high level of efficiency among shift personnel. Participates in fire-fighting operations.

Organises shift of fire-fighters and co-ordinates activities such as training drills, joint exercises between two or more stations, familiarisation programs and inspections of buildings, in district, for fire hazards, to ensure adequate distribution of personnel and equipment. Maintains discipline among shift personnel and monitors performance of subordinates. Turns out to fire calls. Co-ordinates fire-fighting activities of shift at major fires until relieved by superior officer. Supervises and inspects equipment and building maintenance. Recommends changes and improvements in equipment and procedures. Selects subordinate personnel for specialist functions such as training junior personnel. Supervises and participates in training, use of equipment and methods for extinguishing different fires. Advises management of problems or matters requiring changes of policy at management level. Writes or supervises writing of reports on shift activities.

May supervise salvage operations and return of appliances and equipment to fire stations after fire has been extinguished. May prepare report on fire call, listing location type, probable cause, estimated damage and casualties. May be in charge of a fire station and compile monthly report on station's activities, participate in preparation of annual budget for station area or efficiency of fire station and other shift officers and be designated accordingly, e.g.

District Officer (Fire-Fighting)  
Fire Station Officer  
Officer-in-Charge, Fire Station

*Job Content Factors*

<i>Workers</i>	
FP: GE10-11y	IP: T3m E8-10y
HC: RSI	RQ: L1 P2 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N2 V2
<i>Functions</i>	
MA: A2 P2 D2 R2 M3 L1	
PA: U2 C2 H2 S2 W1 B1 E3	SA: S1 L2 B1 R3-4
<i>Context</i>	
EC: L3 C06,08,03	TC: A1 I1 T2
SS: 10	SC: 10 (vy)
LMS: 1000 (0 %SE)	ASIC: 8494

**4211-D FIRE PREVENTION OFFICER**  
**Fire and Safety Officer; Fire Protection Engineer; Industrial Fire Safety Officer**

Supervises and co-ordinates fire prevention and fire-fighting activities of an industrial, commercial or other establishment.

Regularly inspects premises, and uses knowledge of operating procedures, plant, and the processes of the organisation to identify potential fire hazards. Determines methods of overcoming hazard and makes recommendations and gives

advice to line management and supervising personnel. Consults with engineers on design and evaluation of safety systems. Develops special fire-fighting and rescue techniques to combat specific hazards. Directs fire-fighting and rescue activities during emergencies. Investigates fires and prepares reports on known or probable cause and recommends corrective action. Co-ordinates training of industrial and volunteer fire-fighters and gives instruction in fire prevention and safety and emergency procedures such as fire-fighting, rescue and evacuation techniques and use of breathing apparatus. Demonstrates use of fire-fighting equipment such as fire extinguishers, sprinklers, hoses and hydrants and conducts fire drills. Inspects fire doors and exits to ensure compliance with fire safety regulations. Inspects fire-fighting equipment and orders servicing or replacement as required. Issues permits for storage and use of flammable or hazardous materials on premises.

May participate in, or co-ordinate joint exercises with other fire brigades. May be in charge of a number of subordinate fire prevention officers in larger establishments and be designated accordingly, e.g.

Chief Fire Prevention Officer

*Job Content Factors*

<i>Workers</i>	
FP: GE12y	IP: T6-12m E1-5y
HC: ICR	RQ: L2 P2 U1
<i>Materials</i>	
SM: D1 P2 T2	EQ: N2 V2
<i>Functions</i>	
MA: I2 A2 P2 D2 R2 M3 L1	
PA: S2 W1 B2 E3	SA: S1 L2 I2 B2 R4
<i>Context</i>	
EC: L3 C09,10,12	TC: A1 I2
SS: 6	SC: 10 (vy)
LMS: 2000 (0 %SE)	ASIC: Many

**4212 SUPERVISORS, PRISON OFFICERS AND SECURITY GUARD OCCUPATIONS**

This unit group covers occupations concerned with supervising and co-ordinating the activities of personnel engaged in guarding inmates at penal institutions, protecting property from theft or damage and premises from illegal entry, ensuring the safety of people and property, and investigating crime, lost or missing persons by private agreement with organisations or persons.

**Entry Requirements** Year 9-12 and 10-12 years' work experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN; supervising the day-to-day activities of prison officers engaged in the control of prisoners; supervising various guards engaged in safe guarding valuables, stock, personal safety of patrons or public property, equipment or buildings; and carrying out inquiries of a public or private nature.

**4212-A CHIEF OFFICER, PRISON**

Supervises and co-ordinates activities of correctional officers engaged in guarding and maintaining custody of inmates of prisons and reformatories.

Performs duties as described under Master Title SUPERVISOR/ FOREMAN/WOMAN. Ensures correctional personnel attend to needs of inmates and maintain discipline in accordance with established rules and regulations.

*Job Content Factors*

<i>Workers</i>	
FP: GE9-12y	IP: T(v) E10-12y
HC: CIS	RQ: P2 D1
<i>Materials</i>	
SM: D1 P2	EQ:
<i>Functions</i>	
MA: I2 A2 P1 D2 R2 M3 L1	
PA: S1 W2 E2	SA: S1 L2 M1 R3-2
<i>Context</i>	
EC: L1 C13	TC: A1
SS: 9	SC: 10 (2 y)
LMS: 50 (0 %SE)	ASIC: 8493

**4212-B            SECURITY OFFICER,  
MANAGER/SUPERVISOR  
Inquiry Agent, Manager/Supervisor; Senior  
Security Guard**

Supervises and co-ordinates activities of security personnel of an industrial, commercial or other establishment.

Performs duties as described under Master Title SUPERVISOR/ FOREMAN/WOMAN. Directs activities of subordinates during fires, storms and other emergencies. Inspects or directs inspection of premises to test alarm systems, detect safety hazards and ensure safety equipment is serviceable. Co-operates with police, fire and civil defence authorities in problems affecting an establishment. Maintains regular contact with subordinates using two-way radio system. Issues keys for offices and buildings to authorised personnel

and keeps record of keys issued. Manages or supervises personnel engaged in private investigation work and reports to client.

Job Content Factors	
Workers	
FP: GE12y	IP: T3y
HC: CIS	RQ: S1 P2
Materials	
SM: D2 P2 T2	EQ:
Functions	
MA: I2 A2 P1 D2 R3 M3 L1	
PA: S1 W2 E1	SA: A2 S1 I2 P2 B1 R3
Context	
EC: L1	TC: A1
SS: 9	SC: 10 (vy)
LMS: 1000 (0 %SE)	ASIC: 6389

**4213 POLICE OCCUPATIONS**

This unit group covers occupations concerned with protecting the public and maintaining law and order, and general police duties of prevention, detection and control of crime and assistance to the public.

**Entry Requirements** a basic vocational/para-professional certificate and up to 10 years' experience; a degree/diploma is required for some specialist occupations.

**Activities include** detecting and preventing crime; directing and controlling traffic; investigating and apprehending persons suspected of breaking any law which comes within the ambit of law enforcement; locating lost or missing persons and property; and participating in air/sea rescue services.

**4213-A            POLICE OFFICER, GENERAL DUTIES  
Policeman/woman**

Responsible for an assigned area to maintain public order, enforce State and local government laws and arrest or summons offenders by performing any combination of the following duties.

Familiarises self with residents, businesses and streets of area. Patrols assigned area on foot or drives radio equipped vehicle to check security of doors and windows of buildings and watch for unusual activity, maintaining radio contact with headquarters. Checks licensed establishments periodically to ensure compliance with laws and regulations. Stops suspicious persons or vehicles and checks identity with central computer records using two-way radio. Issues infringement notices for traffic offences. Responds to citizens' complaints or radio instructions and proceeds to scene of crime, disturbance or accident. Ensures other emergency services are summoned where required. Attends disputes affecting public order including domestic quarrels. Directs, re-routes traffic at congested areas or scene of parades, disturbances or accidents. Secures and protects evidence at scene of crime or accident and questions witnesses. Detains suspects by using such force as may be necessary to effect an arrest. Arrests and searches suspected criminals for concealed weapons, stolen goods or drugs ensuring compliance with procedures laid down through routine orders. Prepares brief from which evidence is given in court. Maintains an active role in community affairs.

May give evidence and testify or present police prosecution case in court. May locate and detain illegal immigrants or armed forces deserters when requested by the provost marshal. May test persons suspected of impaired driving, using breathalyser equipment. May be appointed sherriff's

bailliff. May play a musical instrument in a police band. May examine subordinate officers' daily occurrence reports and refer serious matters contained, or suspected breaches of routine orders or regulations to superior officer. May specialise in a particular area of general police work such as dog handling, gaming, traffic duties, mounted police, vice duties, or drug investigation. May be designated according to rank, number of direct subordinates and branch with the police force, e.g.

First Class Sergeant, Liquor and Gaming Branch  
Mounted Police Officer  
Police Constable, Dog Squad  
Police Sergeant  
Senior Sergeant, Police  
Water Police Officer

Job Content Factors	
Workers	
FP: GE12y PSP3m(B)	IP: E6-12m
HC: RSI	RQ: L1 P1 D1 V2 A2
Materials	
SM: D2 P1	EQ: N2 K2 V2
Functions	
MA: D2 R2 L2	
PA: U2 C2 H2 S2 W1 E3	SA: S1 L2 I1 P2
Context	
EC: M2 L3 C13	TC: A1 I1
SS: 6	SC: 9 (15y)
LMS: 4000 (0 %SE)	ASIC: 8492

**4213-B            DETECTIVE  
Police Officer, Criminal Investigation Branch**

Investigates crimes such as homicide, robbery, and illegal sale

of drugs. Solves crimes and arrest persons suspected of having broken the law.

Performs duties described under 4213-A POLICE OFFICER, GENERAL DUTIES to investigate criminal activity and to detect and apprehend offenders. Undertakes investigations at the scene of a crime. Determines most appropriate method of collecting evidence. Summons assistance of scientific branch police officer if required. Establishes method by which crime was committed for classifying by the *modus operandi* section. Investigates facts of particular case of known or suspected criminals to detect clues or planned criminal activity. Frequents known haunts of criminals and becomes familiar with their habits, associates, aliases and characteristics. Records and reports such information, including information regarding planned or committed crimes. Questions and takes evidence from witnesses and suspects after advising them of their civil rights. Prepares evidence to be given in deposition in court. Prepares precis of evidence and character report on alleged offender for case records. Reports progress of investigation to superior officer.

May specialise in a particular field of criminal investigation such as homicide, fraud or drugs. May be designated according to rank and number of direct subordinates, e.g.

Detective Constable      Detective Sergeant  
Senior Detective Constable

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3m(B)	IP: E3-5y
HC: IS	RQ: L2 P1 U2
<i>Materials</i>	
SM: D1 I2 P2	EQ: V2
<i>Functions</i>	
MA: I1 A1 P2 D2 R1 L2	
PA: C2 S2 W2 E2	SA: S1 I2 P2 B2 R4
<i>Context</i>	
EC: M2 L3 C13	TC: A1 I2 T2
SS: 7	SC: 9 (8 y)
LMS: 5000 (0 %SE)	ASIC: 8492

#### 4213-C POLICE OFFICER, PROTECTIVE SERVICE

Guards Commonwealth property and premises such as offices and factories, defence establishments, airports and diplomatic or consular premises and provides physical protection for federal politicians, representatives of foreign governments, senior officials and other designated persons.

Patrols buildings and grounds of assigned area, on foot or in vehicle, to watch for fire and criminal activities such as sabotage, theft and vandalism. Screens access to and egress from specified, prohibited Commonwealth places. Checks identity and intention of suspicious persons encountered in prohibited or security areas and detains them if necessary. Arrests or restrains persons breaching or about to breach Commonwealth or Territorial law or State law on Commonwealth property, hands over persons breaching State laws to appropriate state police authority. Searches persons, personal property and vehicles for bombs, weapons, stolen property or unauthorised classified material. Reports all breaches of security to superior and safeguards all classified material found. Secures and protects evidence at scene of crime. Monitors alarms at specified Commonwealth places. Informs headquarters of intended movements of person designated for guarding. Guards designated officials at residences, during travel and while appearing in public as required. Identifies explosive devices and ensures, as far as possible, the safety of persons and property threatened by illegal use of explosives. Assists in the evacuation of buildings being guarded, in the event of fire-alarms and bomb threats. Co-operates with other police officers, guards and security officers.

May provide uniformed security at designated Australian diplomatic premises overseas. May train dogs to track and detect persons, drugs and explosives and co-ordinate and participate in tracking operations. May direct actions of subordinate officers and be designated according to rank, e.g.

Protective Service Senior Constable  
Protective Service Senior Sergeant  
Protective Service Constable    Protective Service Sergeant

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP2y(PPC)	IP: E10y
HC: SRI	RQ: L1 P2 D1 V2 A2
<i>Materials</i>	
SM: D2 P1	EQ: K2 V2
<i>Functions</i>	
MA: D2 R3 L1	
PA: C2 S2 W1 E3	SA: A2 S2 I2
<i>Context</i>	
EC: M2 L3 C13	TC: A1 I1
SS: 5	SC: 9 (10y)
LMS: 5000 (0 %SE)	ASIC: 8492

#### 4213-D POLICE OFFICER, SCIENTIFIC BRANCH Police Officer, Scientific Investigation

Examines scene of crime or accident to locate and obtain evidence for testing and analysis by forensic or pathological scientists and to record scenes of crime for investigational purposes.

Performs all or a combination of the following duties. Examines and secures measurements, fingerprints, tyre, tool and foot equipment, plastercasting and other techniques, for examination by crime detection laboratory. Examines and tests firearms, bullets and cartridge cases, to determine if exhibit bullet and cartridge were fired from a specific firearm. Photographs, fingerprints, plastercast impressions, and scenes of crimes or accidents to prepare photographic record of evidence for investigational, court or record purposes. Prepares scale drawings from measurements taken at scene of crime, using drafting equipment. Demonstrates techniques and assigns duties to subordinates. Prepares records of cases investigated and fingerprints taken and classified. Attends court to submit evidence, such as exhibits, drawings, photographs and physical comparisons. Advises police regarding preservation of scene of crime and care and handling of exhibits.

May perform special scientific testing of evidence in area of expertise. May specialise in one or more fields of scientific investigation, e.g.

Ballistics Expert      Fingerprint Examiner  
Firearms Examiner  
Police Constable, Scientific Branch

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3m(B) or FP: GE12y PSP3y (D) / (Dip)	IP: E5-7y IP: E5-7y
HC: RSI	RQ: L2 P2 U1 D2 V2 A2
<i>Materials</i>	
SM: D1 P2 T2	EQ: P1 S1 N2 V2
<i>Functions</i>	
MA: I2 A1 P2 D2 R3 M2 L2	
PA: P1 U2 C2 S2 W1 E2	SA: A2 S1
<i>Context</i>	
EC: M2 L3 C13	TC: A1 I2 T2
SS: 6	SC: 9 (10y)
LMS: 1000 (0 %SE)	ASIC: 8492

#### 4213-Z POLICE OCCUPATIONS nec

This residual group covers police occupations not elsewhere classified, such as operating police aircraft, carrying out underwater investigation and advising on medical aspects of the police force and crime, e.g.

Pilot, Police Air Wing      Police Diver

4214 FIRE-FIGHTING OCCUPATIONS

This unit group covers occupations concerned with fighting fires, protecting life and property and rescuing passengers and crew from crashed aircraft, rescue persons at fires and the use of and maintenance of fire-fighting equipment.

Entry Requirements Year 10-11

Activities include attending fires in buildings, on aircraft or elsewhere within area of responsibility; rescuing persons in fires or accidents; applying first aid when necessary; and participating in fire drills or displays.

Related Occupations

Unit Group 102 : General Management Occupations

4214-A AIRPORT FIRE-FIGHTER

Maintains emergency fire service to respond to actual or potential air crash emergencies to prevent or extinguish fires and rescue aircraft passengers and crew.

Drives or accompanies fire-fighting appliances to scene of crash or incident. Applies foam and/or other chemical agents onto crashed aircraft by means of high pressure mobile hoses to prevent or extinguish fire. Rescues passengers and crew from aircraft, using where necessary portable saws and hydraulic tools. Renders first aid to injured persons. Removes or neutralises explosive material on crashed or damaged aircraft. Prevents unauthorised persons from entering crash area, if required. Operates portable extinguisher to fight small, localised fires. Maintains fire-fighting equipment in state of readiness and good repair. Inspects buildings and surrounding area for fire hazards. Participates in regular fire drill.

Job Content Factors

Workers	
FP: GE10-11y	IP: T15m
HC: RS	RQ: L1 P2 U2 D1 V2 A2
Materials	
SM: D2 P2 T1	EQ: S1 N1 M1 V1
Functions	
MA: D3 R4 L2	
PA: U1 C1 H1 S2 W1 B2 E4	SA: S2 L2
Context	
EC: M2 L3 C01,08,13	TC: A1 I1 T2
SS: 7	SC: 9 (5 y)
LMS: 700 (0 %SE)	ASIC: 8494

type of hose and to ensure water is drawn from source at correct rate. Opens and closes valves to ensure correct mixing of chemicals, such as foam, with air and water. Sprays water or chemicals from hose, portable extinguisher or other appliance to extinguish fires or to remove or neutralise hazards such as chemical or fuel spills. Positions and climbs ladders and operates aerial appliances such as elevating platforms and turntable ladders to reach upper levels of structures. Carries or leads occupants of burning building to safety. Cuts openings in buildings for entrance or ventilation using axe, crowbar, saws or other tools. Cuts and prises sections of crashed vehicles to extricate occupants using cutting and jacking equipment. Protects property from water and smoke, using waterproof salvage covers and smoke ejectors. Administers artificial respiration to persons overcome by heat or smoke using respirator and administers other first aid if required. Participates in fire drills, demonstrations and courses in fire-fighting techniques and equipment operation and maintenance. Visits buildings and areas of potential fire hazards to familiarise self with access points and location of water supply and other features. Cleans and performs routine maintenance on equipment appliances and services fire hydrants. Maintains quarters, buildings and grounds in serviceable condition.

May inspect buildings for fire hazards and compliance with fire regulations under supervision of shift officer. May specialise and be designated accordingly, e.g. Forest Fire-Fighter

Job Content Factors

Workers	
FP: GE10-11y	IP: T3m
HC: RS	RQ: L1 P2 U2 D1 V2 A2
Materials	
SM: D2 P2 T1	EQ: S1 N1 M1 V1
Functions	
MA: D3 R4 L2	
PA: U1 C1 H1 S2 W1 B2 E4	SA: S1 L2
Context	
EC: L3 C01,08,12	TC: A1 I1 T2
SS: 5	SC: 8 (8 y)
LMS: 5500 (0 %SE)	ASIC: 8494

4214-B FIRE-FIGHTER (GENERAL)

Controls and extinguishes fires, protects life and property and maintains equipment as member of a fire brigade.

Responds to fire-alarms, emergency calls and other calls for assistance. Drives fire appliance or other vehicle. Rescues people stranded or trapped in dangerous situations or inaccessible places. Connects hoses to hydrants and fire appliances at scene of fire. Operates pump and monitors gauges to maintain correct pressure for height of spray or

4215 PRISON OFFICER OCCUPATIONS

This unit group covers occupations concerned with guarding inmates of prisons and reformatories, and controlling their daily activities.

Entry requirements Year 9.

**Activities include** confining prisoners to cells or rooms, releasing from same, supervising of exercise, meals and work periods, searching prisoners and cells for contraband articles, observation of prisoners in cells or rooms, inspecting security measures, patrolling defined areas, directing and overseeing visitors, supplying necessities and applying first aid when needed.

*Related Occupations*

Unit Group 1020 : General Management Occupations

4215-A PRISON OFFICER

Guards inmates in penal institutions.

Searches prisoners and cells for weapons, valuables, drugs or contraband articles, and locks prisoners in cell. Observes conduct and behaviour of prisoners to prevent disturbances and escapes. Inspects security of locks, window-bars, grills, doors and gates. Supervises prisoners during work assignments, recreation periods, sports and meals. Serves meals to prisoners confined to cells. Patrols assigned areas, and reports to superior or other workers any infraction of rules, unsatisfactory attitudes or adjustment problems of prisoners. Renders first aid as required. Requisitions clothing, toilet articles, reading material or other items for prisoners. Gives directions to visitors and records their identity. Guards prisoners in transit between prison and court room, police lock-up or other destination. Prepares admission and other reports, as required.

May be in charge of a wing or area of prison and supervise work of subordinate prison officers and be designated accordingly, e.g.

Senior Prison Officer

*Job Content Factors*

<i>Workers</i>	
FP: GE9y	IP: T3m
HC: CIS	RQ: P1 D1
<i>Materials</i>	
SM: D2 P1	EQ:
<i>Functions</i>	
MA: D3 R4 L2	
PA: H2 W1 E3	SA: S1 L2 I2
<i>Context</i>	
EC: L3 C13	TC: A1 I1 R1
SS: 8	SC: 9 (13y)
LMS: 7500 (0 %SE)	ASIC: 8493

4216 INVESTIGATORY OCCUPATIONS

This unit group covers occupations concerned with security and investigation of irregularities on railway property, location of missing persons, provision of information on various matters for private clients or commercial organisations, detection and investigation of theft in commercial organisations, or unlawful practices by employers or patrons.

**Entry Requirements** Year 10-12 and, in some cases, a para-professional certificate with 5 years' experience.

**Activities include** investigating railway tickets, goods, property or equipment irregularities, liaising with police and preparing evidence, court appearance, patrol duties, apprehending suspects; private investigations to provide information to clients on various matters; investigating and detecting theft and irregularities in commercial organisations and liaising with police on behalf of the organisation.

4216-A RAILWAY INVESTIGATOR  
Railway Detective

Investigates theft or other offences on railway property.

Conducts investigations into reports of ticket irregularities, missing goods and the misappropriation of cash and property. Interviews company personnel and members of the public to obtain statements and gather information concerning offences. Co-operates with police forces to secure additional information. Performs train patrol duties and vehicle patrols to prevent or combat wilful damage or disorderly behaviour on trains and railway premises, and to ensure the general security of railway property. Apprehends suspects and removes them from premises or places them in police custody. Prepares evidence for courts and institutes prosecutions

against offenders under appropriate railway acts and by-laws. Conducts inquiries into monies owing and arranges court summons for recovery of debts. Prepares detailed reports of findings of investigations.

May escort and be responsible for the security of cash, payrolls and valuable goods, and railway employees handling them. May investigate ministerial inquiries and may assist chief railway investigator.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP3m(PPC)	IP: T1y E5y
HC: IRC	RQ: S1 P1
<i>Materials</i>	
SM: D1 P2 T2	EQ:

*Functions*

MA: I1 A1 D2 R3 L2

PA: S1 W2 E2

SA: A2 S1 I1

*Context*

EC: M2 L3 C13

TC: A1

SS: 5

SC: 7 (7 y)

LMS: 45 (0 %SE)

ASIC: 52

**4216-B****INQUIRY AGENT****Detection Agent; Private Detective**

Conducts private investigations either on own or others' behalf to obtain confidential information, furnish evidence for court proceedings, locate missing persons and investigate crimes.

Follows persons under investigation to observe movements and habits. Contracts employers, credit organisations and other sources and co-ordinates with police forces to obtain information concerning individuals under investigation. Locates witnesses and individuals being investigated and obtains statements. Examines scene of crime when investigating criminal cases to obtain evidence. Works undercover when required to gather information and implicate suspects. Prepares reports on progress of investigations for client or supervisor. Takes and develops photographs for use in investigations.

May be employed in commercial, retail or service establishments to investigate integrity of employees and report dishonesty or breaches of security to employer or police. May investigate compensation and insurance claims involving stated injury to obtain evidence as to claimant's actual level of disability. May supervise other workers engaged in conducting private investigations and be designated accordingly, e.g. Supervisor, Inquiry Agents Insurance Investigator

*Job Content Factors**Workers*

FP: GE10-12y

IP: E6-12m

HC: IRC

RQ: L2 S1 P1 V2 A2

*Materials*

SM: D2 P2 T2

EQ: V2

*Functions*

MA: I1 A1 D2 R3 L2

PA: C2 S2 W2 E2

SA: A1 S2 P2

*Context*

EC: M2 L3 C13

TC: I1 T2

SS: 4

SC: 7 (vy)

LMS: 280 (20%SE)

ASIC: 6389

**4216-C****SECURITY OFFICER, RETAIL****Consultant Investigator, Retail; Retail Security Agent**

Detects and investigates shoplifting, fraud and other unlawful acts of employees or patrons of business establishments by performing any combination of the following duties.

Talks with employees to gain their friendship, confidence and assistance. Observes daily routine of employees and customers to detect unlawful acts and unusual occurrences. Spot checks employees' parcels, performs duties of regular employees such as selling, stock checking or truck driving, depending on assignment and experience. Conducts investigations on own initiative or at request of employer and co-operates with police as necessary. Apprehends and detains suspects until arrival of police. Questions suspects to secure evidence and obtain statement. Examines and retains property or evidence until case comes to trial, or returns property to correct department. Gives evidence in court. Prepares reports of investigations for authorities.

May perform other duties as required, such as checking alarm systems and interviewing sales personnel regarding fraudulent cheques.

*Job Content Factors**Workers*

FP: GE10y

IP: T3m

HC: IRC

RQ: L2 P2 U2 V2 A2

*Materials*

SM: D2 P2

EQ: V2

*Functions*

MA: A2 P1 D2 R3 L1

PA: C2 S2 W1 E2

SA: S1 L2 I1

*Context*

EC: L1 C13

TC: A1 R1

SS: 2

SC: 6 (vy)

LMS: 450-2000(0 %SE)

ASIC: 6389

**4216-Z****INVESTIGATORY OCCUPATIONS nec**

This residual group covers private investigation and inquiry occupations not elsewhere classified, for example those concerned with attending commercial, retail and service establishments to evaluate sales techniques and services rendered to customers, e.g.

Sales Checker

**4217 GUARDS AND RELATED SECURITY OCCUPATIONS**

This unit group covers occupations concerned with the protection of property, delivery and safety of valuables, safety and control of persons and patrons and surveillance of property and premises during and after business hours.

**Entry Requirements** no formal requirements (however Railway Patrol Officers require 2 years' experience in a related field).

**Activities include** patrolling property and buildings, apprehending trespassers providing evidence, loading and delivery by armoured car of valuables, guarding places where valuables are stored, answering alarm signals, liaising with police, overseeing behaviour of patrons and ensuring their compliance with regulations and house rules, and the checking of aircraft passengers when boarding.

*Related Occupations*

Unit Group 4213

: Police Occupations

### 4217-A RAILWAY PATROL OFFICER

Guards, patrols and polices railway yards, stations and other railway facilities and property in accordance with appropriate railway acts and by-laws.

Patrols entrance of private or official railway premises and examines credentials of persons desiring entrance. Patrols railway yards, railway station or terminal by car or on foot, to maintain order and to prevent vandalism and other offences on railway property. Apprehends unauthorised persons or persons creating a disturbance and removes them from railway premises. Co-operates with local police forces in apprehending trespassers, thieves or other offenders. Guards railway property at derailments and train wrecks. Summons other emergency services if required and notifies superior of incident. Interviews witnesses at scene of accident or disturbance. Gives evidence in court. Escorts payrolls or valuable shipments. Admits damaged goods and goods requiring security, such as liquor and cigarettes, to bond store and releases such goods to authorised recipients.

May administer first aid at scene of accident or disturbance.

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T6m E2y
HC: IR	RQ: L2 S1 D1 V2 A2
<i>Materials</i>	
SM: P2 T1	EQ: V1
<i>Functions</i>	
MA: A2 P2 D3 R4 L2	
PA: U2 C2 H2 W1 B1 E2	SA: A1 S2 I2
<i>Context</i>	
EC: L3 C13	TC: A1 I1 R1
SS: 3	SC: 8 (vy)
LMS: 500 (0 %SE)	ASIC: 52

### 4217-B ARMoured CAR DRIVER/ESCORT

Drives or guards armoured car en route to business establishments to pick up or deliver money, bullion or other valuables.

Inspects armoured car to ensure proper functioning and reports faults to superior. Draws fire arm and security pass at beginning of shift and returns them to dispatch control at finish of shift or at other times as required by company regulations. Obtains daily running sheet listing pick-ups and deliveries. Locks doors to prevent access to armoured car by unauthorised persons. Drives armoured car to pick-up and delivery points and guards money and valuables in transit to prevent theft. Parks armoured car so that view of area between armoured car and clients' premises is unobstructed. Carries money and valuables between clients' premises and armoured car or remains in armoured car to cover colleague making pick-ups and deliveries. Inspects surroundings constantly to detect suspicious activities, hazards and obstructions. Maintains communication with depot by means of two-way radio by using plain or coded language. Records times of arrival and departure at pick-up and delivery points and number of items received or delivered and contents of packages in daily running book. Deposits money bags, other valuables and receipts with dispatch control at end of shift.

May activate alarm systems and use firearm in self defence in cases of emergency. May guard static displays of jewellery or other valuables between delivery and pick-up by armoured car. May accompany valuables being shipped by air and guard them during loading, unloading and whilst the aircraft is on the ground. May specialise in either armoured car driving or guarding money and valuables in transit and be designated accordingly, e.g.

Armoured Car Driver      Armoured Car Escort

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T3m
HC: RC	RQ: L1 S1 P2 D2 V2

<i>Materials</i>	
SM: D2 T1	EQ: P2 V1
<i>Functions</i>	
MA: D3 R4 L3	
PA: P2 C1 H1 S1 W2 E3	SA: S1 I1
<i>Context</i>	
EC: T1 L3 C13	TC: A1 I2
SS: 6	SC: 6 (vy)
LMS: 1500 (0 %SE)	ASIC: 6389

### 4217-C SECURITY OFFICER, MOBILE Mobile Patrol Officer

Patrols designated geographical area in radio-equipped vehicle, to check security of clients, premises and responds to alarm signals as directed by central or branch station.

Reports to central or branch station. Obtains log sheet, keys to clients' establishments and receives any specific additional instructions relating to patrol of such premises. Checks vehicle prior to departure to ensure roadworthiness, two-way radio for correct operation. Drives vehicle to area designated for patrol. Patrols area checking clients, premises for security of windows, door and gates and for signs of unauthorised entry. Enters premises when so required by client to check for fire hazard or other irregularity such as leaking water pipes, unlocked security doors or malfunctioning equipment. Responds to electronic alarm signals monitored by central or branch station as directed by dispatcher. Locates source of alarm and advises supervisor or dispatcher using two-way radio. Requests assistance of emergency services if required. Apprehends unauthorised persons found on premises and hands them over to police custody. Resets clients' alarm system to restore service. Prepares reports detailing irregularities found and leaves copy at clients' premises. Submits report to central or branch office.

May investigate alarm calls or suspected illegal entry and apprehend offenders at premises other than clients' premises on own initiative or as directed by dispatcher.

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: RIC	RQ: L1 S1 P2 D2 V2 A2
<i>Materials</i>	
SM: D2 T1	EQ: V1
<i>Functions</i>	
MA: D3 R4 L2	
PA: C1 S2 W1 E2	SA: A1 S2
<i>Context</i>	
EC: L3 C13	TC: A2 I1 R1
SS: 4	SC: 4 (vy)
LMS: 1500 (0 %SE)	ASIC: 6389

### 4217-D SECURITY OFFICER Security Guard

Guards industrial, commercial or other property against fire, theft, vandalism and illegal entry, by performing any combination of the following duties.

Patrols assigned area of building, property, industrial or construction site at predetermined intervals. Telephones superior or punches clock at designated stations of establishment to record time of inspection rounds. Observes or examines doors, windows, gates, equipment and machinery, to ensure they are properly secured and that no one has tampered with them. Watches for any irregularities, such as fire hazards, malfunction of machinery or equipment, lights left burning, leaking containers, taps and water pipes and security doors left unlocked; reports such irregularities to superior. Sounds alarm, or telephones or radios supervisor, fire brigade or police in case of fire, presence of unauthorised persons or other incident. Permits authorized persons to enter property and records time of entry and departure. Observes personnel and patrons of establishment to guard against



**4219-Z      PROTECTIVE AND INVESTIGATIVE  
             OCCUPATIONS nec**

This residual group covers occupations, not elsewhere

classified, concerned with assisting to maintain law and order  
in a support capacity, e.g.  
Aboriginal Police Aide      Handwriting Expert  
Police Cadet      Tool Mark Examiner

**MINOR GROUP 422**  
**INSPECTORS AND REGULATING OFFICERS**

Inspectors and Regulating Officers are classified in the following unit groups.

- 4220 Supervisors, Inspectors and Regulating Officers
- 4221 Inspectors and Regulating Officers, Primary Industry and Conservation
- 4222 Inspectors and Regulating Officers, Health, Safety and Working Conditions
- 4223 Other Inspectors and Regulating Officers

**4220 SUPERVISORS, INSPECTORS AND REGULATING OFFICERS**

This unit group covers occupations concerned with the supervision of inspectors and regulating officers.

**Entry Requirements** a trade/degree qualification and 2-3 years' experience.

**Activities include** supervising officers concerned with enforcing adherence to regulations and advising standards in primary industry, conservation, health, safety and working conditions.

**4220-A SUPERVISOR, INSPECTORS AND REGULATING OFFICERS**  
**Superintending Inspector**

Supervises and co-ordinates activities of workers engaged in enforcing government policy decisions and implementing laws, rules and regulations, such as those pertaining to people, animals, plants, products and establishments, in the capacity of local, state, federal inspectors or regulatory officers.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular regulatory or inspecting activity and be designated accordingly, e.g.

- Chief Fisheries and Wildlife Officer
- Chief Health Inspector
- Chief Inspector, Factories and Shops
- Chief/Senior Prevention Officer (Customs)

Principal Animal Health Officer  
Senior Inspector, Orchards and Fruit

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP4y(T) or FP: GE12y PSP3y(D) HC: IEC	IP: T4y E2-3y IP: T2y E2-3y RQ: L1 Q2 U1 V1
<i>Materials</i>	
SM: D2 I2 P1 T2	EQ: V1
<i>Functions</i>	
MA: A1 P1 D1 R2 M3 L2 PA: W1 B2 E2	SA: S1 I2 M1 R2-4
<i>Context</i>	
EC: T1 L2 SS: 8	TC: A1 I2 SC: 10 (vy)
LMS: 50 (0 %SE)	ASIC: Many

**4221 INSPECTORS AND REGULATING OFFICERS, PRIMARY INDUSTRY AND CONSERVATION**

This unit group covers occupations concerned with enforcing adherence to regulations and advising on standards in primary industry and conservation organisations.

**Entry Requirements** in most cases, a post-secondary qualification in an appropriate area and several years' experience.

**Activities include** inspecting animals and plants for disease and/or misuse, and primary products for conformity with growing, rearing, slaughtering and processing regulations.

**4221-A PRIMARY PRODUCTS INSPECTOR, ANIMALS**

Inspects animal products to ensure conformity with governmental standards and health regulations, performing any combination of the following duties.

Investigates cases of animal diseases communicable to man to prevent and restrain their spread. Advises livestock owners on economic aspects of disease eradication and informs producers and the general public on health implications of diseases transmissible from animals to humans. Inspects establishments engaging in slaughter, processing, storage or handling of meat and meat products to ensure that the products are fit for human consumption. Ensures required standards of hygiene observed at cold stores, knackeries, pet food establishments and in meat transport vehicles. Examines live animals and carcasses to detect evidence of disease and rejects those which are sub-standard. Ensures that ingredients used in processing meat, meat products and poultry fall within standards of purity and grading. Inspect machinery buildings and equipment at dairy farms, milk depots, dairies and milk shops to ensure that required standards of construction, repair and cleanliness are being observed. Tests dairy products for purity and grading. Advises producers on all aspects of milk handling.

May be engaged in a particular activity and be designated accordingly, e.g.

Animal Health Officer	Dairy Produce Inspector
Dairy Supervisor	Meat Inspector
Meatworks Standards Officer	

**Job Content Factors****Workers**

FP: GE12y PSP2y(B)	IP: E2-4y
or FP: GE12y PSP3y(D)	IP: E2y
HC: ISE	RQ: U1 D1 V1

**Materials**

SM: D1 I2 P2	EQ: M2
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**Functions**

MA: A2 P2 R2 M2 L3	
PA: S2 W1 E2	SA: S2 L2 I2 P2

**Context**

EC:	TC: A1
SS: 7	SC: 8 ( 5y)

LMS: 45 (0 %SE)

ASIC: 01

**4221-B PRIMARY PRODUCTS INSPECTOR, PLANTS**

Inspects plant products to ensure conformity with governmental standards, performing any combination of the following duties.

Inspects fruit, vegetables and grains at different stages of processing to establish quality, size and grade of product. Examines product at farm, wholesale market, place of storage or place of shipment. Examines specimens of produce to detect and identify diseases, insects or other damage and rejects those of sub-standard quality. Examines imported plants and plant products, such as timber, seeds or dried fruits and makes quarantine arrangements as necessary. Advises on identification of pests and diseases and on regulations pertaining to grading, packing and loading of products. Prepares reports and recommendations as necessary.

May be engaged in a particular activity and be designated accordingly, e.g.

Farm Products Officer	Horticultural Inspector
Market Inspector	Orchard Inspector
Quarantine Assistant/Inspector	

**Job Content Factors****Workers**

FP: GE12y PSP2y(B)	IP: E2-4y
or FP: GE12y PSP3y(D)	IP: E2y
HC: ISE	RQ: U1 D1 V1

**Materials**

SM: D1 I2 P2	EQ: M2
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**Functions**

MA: A2 P2 R2 M2 L3	
PA: S2 W1 E2	SA: S2 L2 I2 P2

**Context**

EC:	TC: A1 S2
SS: 7	SC: 8 ( 5y)

LMS: 45 (0 %SE)

ASIC: 013,014,018

**4221-C WILDLIFE OFFICER  
Fisheries and Wildlife Officer**

Responsible for the care and protection of wildlife in a specified area, and the enforcement of wildlife conservation laws.

Patrols specific areas to regulate and control public attendance; visits other areas to observe bird and animal life and provide protection from public intrusion. Observes and, where possible, takes action to alleviate such problems as disease, lack of food, water or natural protection, especially where natural disasters such as fire and flood have occurred.

May specialise and be responsible for controlling a specific type of wildlife, e.g.

Fisheries Officer

**Job Content Factors****Workers**

FP: GE11y PSP3y(Adip)	IP:
HC: IRA	RQ: U2 D1 V1

**Materials**

SM: D2 P1 T2	EQ: S1 N2 V2 W2
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**Functions**

MA: I2 A2 P2 D2 R2 M2 L2	
PA: P2 S2 W2 E1	SA: S2 L1 I1

**Context**

EC: T2	TC: A1 I1
SS: 7	SC: 9 ( 3y)

LMS: 200 (0 %SE)

ASIC: Many

**4221-D FISHERIES INSPECTOR  
Enforcement Officer, Fisheries and Wildlife**

Enforces laws and regulations pertaining to fisheries activities, equipment and fish handling premises, performing any combination of the following duties.

Patrols ocean and inland waters to detect breaches of legislation. Inspects fishing, prawning and oyster leases to ensure compliance with terms of leases. Inspect boats and equipment used in catching, processing and sale of fish. Investigates reports concerning illegal equipment and catches. Prepares reports on activities and appears in court as required. Inspects fish and fish handling to ensure compliance with fish exports standards and requirements of importing countries. Advises industry on fish exports standards, such as requirements of vessels, processing equipment, layout of facilities and acceptability of fish.

May supervise work of personnel engaged in performing similar duties. May engage in a particular area of fish inspecting and be designated accordingly, e.g.

Fish Exports Inspector

**Job Content Factors****Workers**

FP: GE11y	IP: T3y E4y
HC: SIC	RQ: U2 D1 V1

**Materials**

SM: D1 I2 P2	EQ: M2
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**Functions**

MA: A2 P2 R2 M2	
PA: S2 W1 E1	SA: S2 L2 I2 P2

**Context**

EC:	TC: A1 S2
SS: 7	SC: 8 ( 5y)

LMS: 200 (0 %SE)

ASIC: 043

4221-E      STREAM CONTROL OFFICER

Carries out investigations, prepares reports and submits recommendations on applications from landholders to irrigate from, or to make any alterations to, water courses.

Receives application for irrigation licence. Assesses application relating to the demands already on the water course and the nature of the proposal, e.g. size of pump to be used and acreage and type of crop to be irrigated. Investigates hydrological records to determine ability of water course to meet the new requirements. Performs site inspection. Prepares written report covering all factors relating to the licence. Participates in advisory board meetings. Investigates complaints concerning flooding, construction of unauthorised work (levee banks, dams, pumping plants) or obstructions to water courses. Prepares and presents evidence in courts relating to appeals against the issue or the refusal of issue of licences, or prosecutions for breaches of the relevant acts. Supervises the removal of sand and gravel from water courses.

May carry out minor surveys of water courses and irrigation areas.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP3-4y(Dip)	IP:
HC: IEC	RQ: L1 P2 Q2 U1 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ: K2 V1
<i>Functions</i>	
MA: I2 A1 P1 D1 R2 M3 L2	
PA: U2 W1 E2	SA: L1 P1 B1 R3-4
<i>Context</i>	
EC: T1 L3	TC: A1 I2 T2
SS: 7	SC: 8 (vy)
LMS: 45 (0 %SE)	ASIC: 020

4221-F      BORING INSPECTOR/SUPERVISOR

Supervises the activities of drilling contractors and provides landholders with technical advice on bore construction and bore reconditioning.

Supervises drilling contractors involved with bore construction and bore reconditioning to ensure that they meet statutory requirements. Supervises or conducts pumping tests on bores and measures flows and pressures of artesian bores. Provides landholders with technical advice on bore construction and bore reconditioning. Maintains and repairs water level observation bores. Investigates the need for and supervises the construction of stock route water facilities. Organises and supervises the operation of government boring plants and supervises private boring plants under contract to the government. Administers the provisions of the relevant act relating to licensing of artesian and sub-artesian bores. Maintains records, and prepares reports for submission to head office.

*Job Content Factors*

<i>Workers</i>	
FP: GE12y PSP3-4y(Dip)	IP: E2-3y
HC: RIS	RQ: L1 P1 Q2 U1 V1
<i>Materials</i>	
SM: D2 P1 T2	EQ: P1 S1 M1 V1
<i>Functions</i>	
MA: A1 P1 D2 R2 M2 L2	
PA: P1 U2 W1 E3	SA: L1 P1 B1 R0-4
<i>Context</i>	
EC: T1 L2	TC: A1 I2
SS: 7	SC: 8 (vy)
LMS: 200 (0 %SE)	ASIC: 020

4221-G      INSPECTOR, HUMANE SOCIETY

Investigates reported cases of neglect or cruelty to animals for humane society.

Answers inquiries from public and gives information regarding current laws and regulations governing neglect or cruelty to animals. Inspects sites and examines animals to investigate complaints made against individuals to determine if complaints are justified. Interviews witnesses, records statements and particulars and takes photographs. Arranges for transfer for starving, trapped or injured animals to a shelter. Confers with society officials and their legal advisors to determine if court action is warranted. Arranges for issue of summons to person being charged. Attends court and gives evidence. Inspects premises such as pet shops, stables, stockyards and circuses to ensure animals are cared for properly. Participates in rescue of animals trapped in places such as in trees, buildings and drains.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP: T3m E7-10y
HC: EIS	RQ: U2 D1 V1
<i>Materials</i>	
SM: D1 I2 P2	EQ: K2
<i>Functions</i>	
MA: R2 M3	
PA: W1 E2	SA: S1 I2 P2
<i>Context</i>	
EC: T2	TC: A1 S2 I1
SS: 7	SC: 8 ( 5y)
LMS: 45 (0 %SE)	ASIC: 8305

4221-Z      INSPECTORS AND REGULATORY OFFICERS, PRIMARY INDUSTRY AND CONSERVATION nec

This residual group covers occupations concerned with enforcing adherence to regulations and advising on standards in primary industry and conservation organisations, not elsewhere classified in Unit Group 4221, e.g.

Conservation Officer  
Inspector, Vermin and Noxious Weeds

4222 INSPECTORS AND REGULATING OFFICERS, HEALTH, SAFETY AND WORKING CONDITIONS

This unit group covers occupations concerned with enforcing adherence to regulations and advising on standards relating to health, safety and working conditions.

**Entry Requirements** in most cases, a post-secondary qualification in an appropriate area and several years' experience.

**Activities include** inspecting buildings under construction or those already erected for compliance with building codes, and for the sanitation and health aspects of buildings and their use; observing safety procedures in industry and commercial establishments.

**4222-A SAFETY INSPECTOR**  
**Technical Inspector (Safety)**

Enforces, advises on and interprets laws and regulations governing safety in the fields of construction and other industries, performing any combination of the following duties.

Inspects buildings during construction to ensure that scaffolding, footings, framing, chimneys, stairways, electrical and plumbing installation, water and sewerage connections and completed buildings meet safety regulations. Inspects old structures for safety hazards and warns owner of his/her legal duty to correct unsafe conditions. Inspects and tests boilers, lifting equipment and pressure vessels. Observes activities in underground or open-pit mines to detect unsafe conditions and violations of mine-safety regulations. Looks for rotten or incorrectly placed timbers, defective electrical and mechanical equipment and improperly stored explosives. Tests air to detect toxic or explosives gas or dust. Enforces industrial safety regulations to eliminate unsafe working conditions and health hazards in industrial plants.

May be engaged in a particular safety inspection activity and be designated accordingly, e.g.

- Building Inspector
- Electrical Inspector
- Gas Examiner
- Inspector, Boilers and Pressure Vessels
- Inspector, Explosives and Inflammable Liquids
- Inspector, Factories and Shops
- Inspector of Works
- Lifts and Cranes Inspector
- Mines Inspector
- Scaffolding Inspector

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP4y(T)	IP: T4y
HC: EIC	RQ: U1 D1 V1
<b>Materials</b>	
SM: D2 I2 P1	EQ: M1
<b>Functions</b>	
MA: A2 P2 R2 M2	
PA: S2 W1 E2	SA: S2 L2 I2 P2
<b>Context</b>	
EC:	TC: A1 I1
SS: 7	SC: 8 ( 5y)
LMS: 100 (0 %SE)	ASIC: Many

**4222-B HEALTH INSPECTOR**

Enforces laws and regulations governing health standards, performing any combination of the following duties.

Inspects restaurants, hotels, cafeterias and other public places with sanitation laws, paying special attention to ventilation, sanitation, sewage and drainage. Investigates reports of infectious diseases and pest infestation. Visits plants where food, drugs, cosmetics and similar items are manufactured to investigate sanitary conditions and health and hygiene habits of persons handling consumer products. Inspects waste disposal sites to ensure that pollution control regulations are followed.

May institute legal proceedings where necessary and give evidence in court relating to the enforcement of acts and regulations. May be responsible for ensuring new buildings

and additions to buildings comply with planning and building requirements. May be engaged in a particular activity and be designated accordingly, e.g.

- District Health Inspector
- Industrial Hygiene Inspector
- Inspector, Water Pollution; Water Inspector

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3y(D)	IP: T2y
HC: SIC	RQ: U1 D1 V1
<b>Materials</b>	
SM: D1 I2 P2	EQ:
<b>Functions</b>	
MA: A2 P2 R2 M2	
PA: S1 W2 E1	SA: S2 L2 I2 P2
<b>Context</b>	
EC:	TC: A1
SS: 7	SC: 8 ( 5y)
LMS: 1000 (0 %SE)	ASIC: 7113

**4222-C ARBITRATION INSPECTOR**  
**Industrial Inspector**

Under direction, inspects places of work to ascertain whether awards are being observed and takes necessary follow up action.

Carries out inspection, makes inquiries and interviews employers and employees to determine whether the provisions of awards are being observed. Investigates and reports on complaints of noncompliance with awards. Advises employers and employees on their obligations and rights under the provision of awards and the means of complying with provision of awards, including matters of safety, lighting and amenities. Collects evidence, prepares recommendations and provides general assistance in relation to prosecutions under various statutes.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP3y(D)	IP: E1-5y
HC: ISE	RQ: U1 D1 V1
<b>Materials</b>	
SM: D1 I2 P2	EQ:
<b>Functions</b>	
MA: A2 P2 R2 M2	
PA: S1 W2 E1	SA: S2 L2 I2 P2
<b>Context</b>	
EC:	TC: A1
SS: 7	SC: 8 ( 5y)
LMS: 500 (0 %SE)	ASIC: 7120

**4222-D SAFETY OFFICER**

Inspects machinery, equipment and working conditions to ensure conformity with fire, safety and sanitary standards and regulations.

Examines equipment specifications and inspects and tests equipment such as hoisting devices, machine shields, ladders, scaffolding, materials handling equipment, storage and hot water tanks, safety devices and clothing to ensure conformity with safety standards and serviceability. Observes workers to ensure protective devices, such as gas or dust masks, and safety glasses or shoes, are being utilised according to regulations and that combustible or hazardous materials are used and stored according to approved procedures. Conducts tests in work areas to detect toxic fumes, explosive gas-air

mixtures, or other work hazards, using testing instruments. Examines new and reconditioned equipment to ensure conformity with safety standards. Ensures fire prevention materials and other safety supplies, such as first aid kits, stretchers and blankets are kept to predetermined standards. Investigates accidents and unsafe working conditions, studies causes, and recommends remedial action. Assists in conducting safety meetings and campaigns.

May report unsafe conditions and careless actions of workers to supervisor.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y PSP3y(D)	IP: T(v) E(v)
or FP: GE12y PSPv0y(T)	IP: T(v) E(v)
HC: EIC	RQ: U1 D1 V1 A1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: S1 N2 M1 K2 V2
<i>Functions</i>	
MA: P2 R2 M2 L3	
PA: P1 W1 B2 E2	SA: L1 I2 P2
<i>Context</i>	
EC: T2 L2	TC: A1 I1
SS: 7	SC: 8 ( 5y)

LMS: 1000 (0 %SE)

ASIC: Many

### 4222-E AREA/TERRITORY SUPERVISOR, SERVICE STATIONS Area/Territory Manager, Service Stations

Inspects motor vehicle service stations in designated area, to ensure conformity with company's operating policies and procedures.

Inspects service station, stockrooms, to ensure that only firm's approved products are in stock. Inspects machinery and equipment to ensure serviceability. Examines station's appearance, lighting and rest rooms to ensure specified standards of cleanliness and good housekeeping are met by dealers. Develops plans and counsels dealers on methods to increase sales and profits. Prepares estimates of capital and maintenance expenditures for company's service stations and advises management on market and competitive developments in designated territory. Resolves major complaints of service station's customers.

May interview and recommend suitable applications as service station lessees.

#### Job Content Factors

<i>Workers</i>	
FP: GE11y PSP4y(T)	IP: T(v)
or FP: GE11y	IP: T(v) E(v)
HC: EIC	RQ: D1 V1 A2
<i>Materials</i>	
SM: D2 I2 P1	EQ: N2
<i>Functions</i>	
MA: A2 P2 D1 R2 M2 L2	
PA: W1 E2	SA: S1 P2
<i>Context</i>	
EC: T1	TC: A1 I1
SS: 7	SC: 8 ( 5y)

LMS: 250 (0 %SE)

ASIC: 4864

### 4222-F ACCIDENT PREVENTION OFFICER, INSURANCE

Inspects insured properties to evaluate conditions affecting underwriting standards and develops and promotes safety programs.

Inspects building, vehicles and operations of commercial and industrial establishments, to determine physical conditions or unsafe practices. Compiles data affecting premiums by measuring areas of frontage or making scale drawings of properties. Prepares reports with recommendations for corrective action. Analyses claims and accident-history data or inspects scene of accident, to determine causes and effects, and to develop safety program compatible with needs and

resources of insured. Conducts meetings to promote safety programs among educational, civic and industrial groups, by informing them of government and company safety standards and regulations, using motion pictures and other visual aids to supplement discussion.

#### Job Content Factors

<i>Workers</i>	
FP: GE11y PSPv y(B)	IP: E5y
HC: EIC	RQ: D1 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: S1 M2 W2
<i>Functions</i>	
MA: A2 P2 R2 M3 L3	
PA: W1 E1	SA: L1 I2 P2
<i>Context</i>	
EC:	TC: A1 I1
SS: 7	SC: 8 ( 5y)

LMS: 500 (0 %SE)

ASIC: 6234

### 4222-G TRAVEL ACCOMMODATION INSPECTOR Field Liaison Officer (Travel Accommodation)

Inspects, examines, analyses and assesses travel accommodation, operations and services of individual or chain of motels, hotels, restaurants and campsites to ensure conformity with government or company standards and policies.

Inspects and rates accommodation and services according to type, quality, amounts charged, sanitary conditions and related factors. Investigates complaints of patrons, such as increase in rates, condition of accommodation and failure of company to comply with standards in buildings and services. Examines structures, surroundings, furnishings and supplies to determine if repairs or replacements are required and makes appropriate recommendation.

May classify establishment according to travel accommodation standards used by motor vehicle association.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y	IP: E5-10y
HC: EIC	RQ: D1 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ:
<i>Functions</i>	
MA: A2 M3	
PA: W1 E1	SA: S1 I2 P2
<i>Context</i>	
EC: T1	TC: A1 I1
SS: 7	SC: 8 ( 5y)

LMS: 100 (0 %SE)

ASIC: 9233,5514

### 4222-H FIRE SAFETY INSPECTOR

Inspects premises of commercial and industrial establishments, to detect and eliminate fire hazards.

Inspects fire-extinguishing and fire protection equipment, such as sprinkler systems, fire-extinguishers and hose houses of fire apparatus, to ensure operating efficiency and compliance with company and government regulations. Tests sprinkler systems by tripping alarm used to detect fires or excess heat in building. Prepares reports listing repairs and replacements required. Patrols premises and investigates unsafe conditions and practices which may cause or increase fire hazards. Reports findings to appropriate authorities with recommendations for eliminating or counteracting hazards. Demonstrates use of fire-fighting equipment and dispenses fire prevention literature to workers. Keeps current plans of all water system lines and information on availability of adequate supply of water in event of fires.

May train employees in fire-fighting procedures and arrange for specified number of workers for fire duties. May prepare fire reports covering cause of fire, procedure used to control fire, injuries sustained and treatment services provided. May keep inventory and requisition supplies for fire-fighting.

#### Job Content Factors

<i>Workers</i>	
FP: GE11y	IP: E5y
HC: EIC	RQ: U2 D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: N2 K2
<i>Functions</i>	
MA: A2 R2 M3	
PA: P2 W1 B2 E3	SA: S1 I2
<i>Context</i>	
EC: T2	TC: A1 I1
SS: 7	SC: 8 ( 5y)
LMS: 100 (0 %SE)	ASIC: 8494

### 4222-I TRAFFIC INSPECTOR

Co-ordinates scheduled service, and investigates service disruptions within assigned territory of tramway, bus or rail transportation system.

Observes vehicles along route to ensure service is provided according to schedule. Investigates delays in maintaining schedules, accidents and complaints, and files written reports. Informs dispatcher of disruptions in service, using radiotelephone. Liaises with dispatcher in rerouting traffic around temporary obstructions, such as accidents, fires or watermain breaks, or to supply additional coaches on temporarily overloaded routes. Drives automobile along route

to detect conditions hazardous to equipment and passengers. Assists in dispatching equipment when necessary. Recommends promotions and disciplinary action involving transportation personnel. Inspects vehicles having mechanical trouble along route and calls maintenance personnel to repair or recover vehicle.

May liaise with police or relevant public authority to eliminate hazards.

#### Job Content Factors

<i>Workers</i>	
FP: GE11y	IP: E2-5y
HC: EIC	RQ: D1 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: K2
<i>Functions</i>	
MA: I2 A2 R3 M3 L3	
PA: W1 E2	SA: S1 I2
<i>Context</i>	
EC: T1	TC: A2 I1
SS: 7	SC: 8 ( 5y)
LMS: 250 (0 %SE)	ASIC: 6336

### 4222-Z INSPECTORS AND REGULATING OFFICERS, HEALTH, SAFETY AND WORKING CONDITIONS nec

This residual group covers occupations concerned with enforcing adherence to regulations and advising on standards relating to health, safety and working conditions, not elsewhere classified in Unit Group 4222, e.g.

Inspector, Explosives Transport

## 4223 OTHER INSPECTORS AND REGULATING OFFICERS

This residual unit group covers other occupations concerned with enforcing adherence to regulations and advising on standards.

**Activities include** investigating suspected breaches of various statutes, taking appropriate follow up action; planning, co-ordinating and undertaking field inspections and audits of postal service network.

### 4223-A CUSTOMS INVESTIGATOR Preventive Officer (Customs)

Investigates suspected breaches of various statutes, takes appropriate follow up action such as reports and recommendations when breaches are detected.

Carries out as directed, random check programs of documents and commodities to detect illegal removal of dutiable goods. Initiates appropriate action, such as the preparation of reports and appropriate documents when offences are detected. Assists in or conducts raids on private and business premises and, when necessary, searches premises, vehicles ships and aircraft. Examines seizures or detains goods; questions, searches or detains persons and when appropriate, makes arrests and gives evidence in court.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y	IP: T2-3y
HC: SIE	RQ: U2 D1 V1
<i>Materials</i>	
SM: D2 I2 P1	EQ:
<i>Functions</i>	
MA: A2 P2 R2 M2	
PA: S1 W2 E1	SA: S2 L2 I2 P2

#### Context

EC:	TC: A1
SS: 7	SC: 8 ( 5y)
LMS: 200 (0 %SE)	ASIC: 7111

### 4223-B FIELD MANAGER, POSTAL SERVICES

Plans, co-ordinates and undertakes field inspections and audits of the postal service network in accord with established policy and guidelines and recommends improvements as required.

Undertakes field investigations of postage services reporting on the effectiveness, economical operation and promotion of customer services, the circulation of mail and other factors relevant to postal services standards. Communicates with other organisations on matters relating to field operations. Reports on the adequacy of postal service facilities to meet current and future requirements. Oversees the operation of non-official post offices and the implementation of the relevant award and associated instructions. Negotiates with mail contractors and non-official postmasters/mistresses. Investigates adequacy of staffing and develops and implements plans to improve staff skills and staff development. Investigates accidents and unsafe working conditions, studies causes, and recommends remedial action. Assists in conducting safety meetings and campaigns.

May report unsafe conditions and careless actions of workers to supervisor.

Job Content Factors

Workers	
FP: GE11y	IP: E5-10y
HC: ISE	RQ: U1 D1 V1
Materials	
SM: D1 I2 P2	EQ: M1 W2
Functions	
MA: A2 P2 R2 M2 L3	
PA: S2 W1 E1	SA: S2 L2 I2 P2
Context	
EC:	TC: A1
SS: 7	SC: 8 ( 5y)
LMS: 100 (0 %SE)	ASIC: 5600

4223-Z INSPECTORS AND REGULATING OFFICERS nec

This residual group covers other occupations concerned with enforcing adherence to regulations and advising on standards not elsewhere classified in Unit Group 4223, e.g.

- By-laws Officer
- Film Censor
- Licensing Inspector
- Parking Inspector
- Tax Assessor
- Vehicle Testing Officer
- Inspector, Weights and Measures
- Radio Interference Inspector
- Licensed Testing Officer

**MINOR GROUP 423**  
**FOOD AND BEVERAGE PREPARATION AND RELATED SERVICE**  
**OCCUPATIONS**

Food and Beverage Preparation and Related Service Occupations are classified in the following unit groups.

- 4230 Supervisors, Food and Beverage Preparation and Related Service Occupations
- 4231 Cooking Occupations, Trade
- 4232 Apprentice Cooking Occupations
- 4233 Cooking Occupations, Non-Trade
- 4234 Beverage Preparation and Bar Service Occupations
- 4235 Food and Beverage Serving Occupations
- 4270 Other Food and Beverage Preparation and Related Service Occupations

*Related Occupations*

Major Group 65 : Food Processing Occupations

**4230 SUPERVISORS, FOOD AND BEVERAGE PREPARATION AND RELATED SERVICE**  
**OCCUPATIONS**

This unit group covers occupations concerned with the overall planning and/or operation of a food and/or beverage establishment of varying size, or a part of such an establishment.

**Entry Requirements** in most cases, a para-professional/trade/associate diploma qualification.

**Activities include** providing food and beverage catering services on own or owner's behalf or in partnership; supervising and co-ordinating the activities of workers engaged in preparing and serving food and beverages; performing duties described under Master Title **MANAGING SUPERVISOR** and **SUPERVISOR/FOREMAN/WOMAN** as applicable to food and beverage preparation and service.

**4230-A EXECUTIVE CHEF**  
**Chef**

Plans menus, estimates costs and supervises activities of sous-chefs, chefs de partie, cooks and other workers engaged in preparing and cooking foods for consumption in hotels, restaurants, clubs and similar establishments.

Performs duties as described under Master Title **SUPERVISOR/FOREMAN/WOMAN**. Plans menus and advises chefs on size of portions or servings. Reviews labour and food costs and alters menu to stay within budget. Confers with customers regarding plans for special occasions, such as weddings, birthday parties and banquets. Arranges for equipment purchases and repairs. Feels and examines ordered foodstuffs to ensure quality of supplies. Meets with establishment management to discuss problems and future plans.

May demonstrate special cooking techniques to staff chefs.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y PSP4y(T) / (PPC)	IP: T8y
HC: SRI	RQ: U2 D1
<i>Materials</i>	
SM: D1 P2 T2	EQ:
<i>Functions</i>	
MA: P1 D2 R2 M2 L2	
PA: S1 W2 E1	SA: S1 I2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1
SS: 8	SC: 10 (vy)
LMS: 1000 (0 %SE)	ASIC: 92

**4230-B SOUS-CHEF**  
**Executive Sous-Chef**

Supervises and co-ordinates activities of chefs, cooks and other kitchen workers engaged in preparing and cooking food for consumption in hotels, restaurants and similar establishments.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN concentrating on cooking and operational matters. Ensures cleanliness of staff, dishes, utensils and work areas. Feels, tastes and examines food prepared and cooked by subordinates and suggests or makes necessary adjustments. Demonstrates new or alternative techniques of cooking, and operation of new equipment to subordinates. Attends staff meetings to discuss problems, offers recommendations and receives and issues instructions. Performs duties similar to those of 4231-A CHEF, GENERAL when kitchen is busy, or in absence of chef de partie.

**Job Content Factors**

<i>Workers</i>	
FP: GE10y PSP4y(T) / (PPC)	IP: T6y
HC: RIS	RQ: U2 D1
<i>Materials</i>	
SM: D2 P2 T2	EQ: S1 N1 M2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: U1 H2 S2 W1 E2	SA: S1 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 I2 T2
SS: 7	SC: 9 (vy)
LMS: 500 (0 %SE)	ASIC: 92

**4230-C MANAGING SUPERVISOR, DINING ESTABLISHMENT**  
**Maitre D'Hotel; Restaurant Manager**

Plans, organises, directs and controls the operation of a dining establishment to provide food and beverages for guests.

Performs duties as described under Master Title MANAGING SUPERVISOR. Plans, organises, co-ordinates and supervises activities of workers in restaurants, cafeterias or similar dining establishment. Confers with chef or cooks to plan menus. Trains, and supervises training of staff to meet required standards of grooming, attire and service. Plans and organises special function at patron's request. Speaks with guests at table to ensure satisfaction with food, beverages and service. Determines appropriate measures to settle valid complaints, such as adjusting bill, replacing meal or providing free liquor. Inspects dining room, kitchens and storage facilities to ensure they are clean, functional, pleasing in appearance and meet health regulations. Ensures quality and portion control of food leaving kitchen.

May receive and record telephone reservations, greet guests at dining room entrance, escort guests to tables and seat them. May thank guests upon departure and provide courtesies such as aid with coats.

**Job Content Factors**

<i>Workers</i>	
FP: GE10y PSP3y(Adip)	IP: T2y
HC: SCR	RQ: D2
<i>Materials</i>	
SM: D2 P1 T2	EQ:
<i>Functions</i>	
MA: P1 D2 R2 M3 L2	
PA: S2 W2 E2	SA: S2 L1 I1 M1 R3-4
<i>Context</i>	
EC: L1	TC: A1 I1 T2
SS: 7	SC: 9 (vy)
LMS: 300 (0 %SE)	ASIC: 92

**4230-D CATERER**  
**Catering Officer**

Supervises and co-ordinates activities of workers providing a catering function for hotels, restaurants, clubs, hospitals, shipping and airline companies, railways, cafeterias, public and private functions and other special events.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Meets with dietitians, cooks and clients to plan menus and arrange table

decorations, settings and details for catered functions. Supervises the preparation of food and beverages to ensure meals are varied, nutritious, attractive and within budget. Orders supplies of food and beverages, and keeps record of stock. Co-ordinates the distribution of meals. Ensures the kitchens are properly equipped and kept in good working order.

May perform duties similar to those of 4231-B COOK, QUALIFIED. May place prepared and cooked food items in temperature-controlled containers for delivery to place of consumption. May assist in setting of tables and serving of food and beverages. May assist with removal of supplies from catered function and cleaning of cooking and service utensils.

**Job Content Factors**

<i>Workers</i>	
FP: GE10y PSP2-3y(Adip) / (PPC) or FP: PSP4y(T)	IP: T3y IP:
HC: SCE	RQ: D2
<i>Materials</i>	
SM: D2 P2 T2	EQ: N1
<i>Functions</i>	
MA: P1 D2 R2 M3 L2	
PA: U1 H2 S2 W2 E2	SA: S1 I1 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 I1 T2
SS: 5	SC: 9 ( 5y)
LMS: 4000-5000(0 %SE)	ASIC: 92

**4230-E MANAGING SUPERVISOR, FAST FOOD OUTLET**  
**Manager, Fast Food Outlet**

Plans, organises, directs and controls the operation of a fast food outlet to provide food and beverages for patrons to take away or consume on the premises.

Performs duties as described under Master Title MANAGING SUPERVISOR. Plans, organises, co-ordinates and supervises activities of workers in kitchen and service areas. Monitors rate of usage of stock, maintains stock records and orders supplies according to demand. Co-ordinates activities of workers preparing ingredients for daily operation. Supervises activities of workers cooking or partially cooking food in advance of orders, assembling or heating food, portioning and garnishing ingredients, and packing take-away meals to fill orders. Trains staff to meet required standards and quality of service. Inspects kitchen equipment, storage facilities and work areas to ensure they are clean and functional and meet health regulations. Ensures quality of food prepared.

May take telephone orders.

**Job Content Factors**

<i>Workers</i>	
FP: GE NFR	IP: T3y
HC: ESC	RQ:
<i>Materials</i>	
SM: D2 P1 T2	EQ:
<i>Functions</i>	
MA: P1 D2 R2 M3 L2	
PA: S1 W2 E2	SA: S1 I2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 I1
SS: 4	SC: 7 ( 2y)
LMS: 1000-2000(0 %SE)	ASIC: 92

**4230-F FOOD SUPERVISOR**

Supervises, directs and co-ordinates activities of workers engaged in preparing, portioning and serving food in hospitals, cafeterias, canteens and similar establishments, and at catered functions.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Directs and assists staff preparing and portioning food. Maintains records of food

wastage, stock, sales and repairs. Prepares food order summaries for chef according to requests of dietitians for patients in hospitals. Supervises and checks assembly of special and regular diet trays and delivery of food trolleys to and from hospital wards. Reports equipment and furniture damages and arranges for repairs.

May assist in cleaning work areas and utensils. May serve meals to patients. May specialise in hospital food preparation and be designated accordingly, e.g.

Diet Aide

Dietitian's Assistant

#### Job Content Factors

<b>Workers</b>	
FP: GE10y PSP3y(Adip) or FP: PSP2y(PPC)	IP: T1y IP:
HC: SCE	RQ:
<b>Materials</b>	
SM: D2 P1 T2	EQ:
<b>Functions</b>	
MA: P2 D2 R3 M3 L2 PA: S2 W1 E2	SA: S1 B1 R4
<b>Context</b>	
EC: L1 SS: 5	TC: A1 I1 SC: 8 (vy)
LMS: 1000 (0 %SE)	ASIC: 92

#### 4230-G SUPERVISOR, BAR ATTENDANTS Bar Manager

Supervises and co-ordinates activities of workers engaged in preparing, mixing and serving drinks in hotels, restaurants, clubs and other licensed establishments.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Orders supplies of bar stock. Trains staff to meet required standards of grooming and service. Rosters staff according to expected demand. Obtains special occasion licenses. Maintains records of stock, repairs, sales and wastage. Inspects storage and bar facilities to ensure they are clean, functional and meet health regulations. Arranges repairs for bar equipment, fittings and furniture.

May assist bar staff in handling stock and serving patrons.

#### Job Content Factors

<b>Workers</b>	
FP: GE NFR	IP: T3y
HC: SCE	RQ:

#### Materials

SM: D2 P1 T2	EQ:
<b>Functions</b>	
MA: P1 D2 R2 M3 L2 PA: S2 W2 E1	SA: S1 I2 M1 R3-4
<b>Context</b>	
EC: L1 SS: 4	TC: A1 I1 SC: 9 (vy)
LMS: 3000 (0 %SE)	ASIC: 92

#### 4230-H HEAD WAITER/WAITRESS

Supervises and co-ordinates activities of workers engaged in arranging and preparing tables and food and beverages in hotels, restaurants, clubs and similar establishments.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Meets with dining establishment managing supervisor and executive chef or other supervisory staff to determine staff needs and make arrangements for tables, chairs and settings. Supervises activities of waiters/waitresses and stewards/stewardesses, and ensures that they are well groomed and properly attired. Checks that tables, chairs, table settings and decorations are properly arranged and look attractive. Greets guests and presents menu and wine lists. Suggests food dishes and appropriate wines and answers questions regarding food preparation. Relays orders to waiters/waitresses or kitchen staff. Co-ordinates service so that food is served at proper time and temperature. Attends to customer complaints and fulfills additional requests to ensure smooth transition from course to course. Presents bill to patrons and accepts payment or signature.

May assist with service of food dishes and wines or other beverages. May serve meat, garnish and decorate dishes, or prepare flaming dishes at table.

#### Job Content Factors

<b>Workers</b>	
FP: GE NFR PSP3m(T) / (PPC)	IP: T2y
HC: ECS	RQ: D2
<b>Materials</b>	
SM: P1 T2	EQ: N2
<b>Functions</b>	
MA: P2 D2 R3 M3 L2 PA: U2 S2 W1 E2	SA: S1 I1 B1 R3-4
<b>Context</b>	
EC: L1 SS: 4	TC: A1 I1 T2 SC: 7 (vy)
LMS: 1000 (0 %SE)	ASIC: 92

### 4231 COOKING OCCUPATIONS, TRADE

This unit group covers occupations concerned with the preparation and cooking of food; some specialising in particular items of food for preparation and cooking.

**Entry Requirements** a trade qualification in cooking.

**Activities include** selection and preparation of supplies for use, specialised treatment of the food in the cooking process, concentration of cooking skills on particular foods, or in special types of establishments, or working in a group situation requiring special expertise.

#### Related Occupations

Unit Group 6521

: Breadmaking, Milling and Pastrycooking Trade and Related Occupations

4231-A CHEF, GENERAL  
Head Chef; First Chef

Supervises and co-ordinates activities of cooks and other kitchen workers engaged in preparing and cooking food, and prepares and cooks food in hotels, motels, restaurants, clubs, hospitals, cafeterias and similar establishments.

Plans menus and estimates food and labour costs. Advises cooks on size of portions or servings and demonstrates cooking procedures. Requisitions food, kitchen supplies and equipment. Discusses special dinner plans with customers. Interviews, hires and dismisses workers. Directs and supervises the activities of cooks and other workers and demonstrates cooking techniques. Discusses managerial or supervisory issues with managers, dieticians, food supervisors or other staff members. Performs cooking duties being adept in all phases of cooking, advises specialist chefs and oversees kitchen output. Instructs kitchen staff regarding dishes, utensils, kitchen equipment and work area.

May specialise in cooking a particular type of dish and be designated accordingly, e.g.

Chef Entremetier	Chef Garde-Manger
Chef Pâtissier	Chef Poissonnier
Chef Potager	Chef Rotisseur
Chef Saucier	

Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP: T4y
HC: RIS	RQ: D1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N1 M2
<b>Functions</b>	
MA: P2 D2 R2 M3 L2	
PA: U1 H2 S2 W1 E3	SA: S1 B1 R3-4
<b>Context</b>	
EC: L1	TC: A1 I1 T2
SS: 7	SC: 9 ( 3y)
LMS: 7500 (0 %SE)	ASIC: 92

4231-B COOK, QUALIFIED

Prepares, seasons and cooks food for consumption in hotels, motels, restaurants, clubs, hospitals, cafeterias and similar catering establishments.

Plans menus. Reads menus to estimate food requirements. Obtains food from storage. Adjusts thermostat controls to regulate temperature of oven, broilers, fryers, burners, pressure cookers, grills, roaster, steam kettles and other cooking equipment. Bakes, roasts, broils, grills, fries, poaches, stews, braises, boils, sautes, and steams meats, fish, vegetables and other foods. Adds seasoning to foods during mixing or cooking according to personal judgement, experience and recipes. Observes, tastes and smells food being cooked to determine stage of cooking. Portions food, places in appropriate dishes, containers or pans, adds gravies and sauces, and garnishes to fill orders. Instructs cleaning staff to clean dishes, utensils, kitchen equipment and work area. Stores food in temperature controlled facilities.

Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
HC: RIS	RQ: D1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N1 M2
<b>Functions</b>	
MA: P2 D2 R3 M3 L2	
PA: U1 H1 S2 W1 E3	SA: S1 I2 B2 R4
<b>Context</b>	
EC: L1	TC: A1 I1 T2
SS: 2	SC: 6 ( 3y)
LMS: 7500 (0 %SE)	ASIC: 92

4231-C COOK, MARINE

Prepares and cooks meals for passengers and crew. Responsible with chief steward in maintaining adequate nutritional and dietary standards.

Takes food from store rooms and refrigerators. Prepares food for cooking in ship's galley for serving to crew by stewards at prescribed times. Prepares soups, entrees, main courses and desserts. Cleans food preparation and cooking areas, and cooking equipment. Cleans refrigeration chambers.

May bake bread or pastries, and butcher meat. May be designated according to degree of responsibility and type of vessel, e.g.

Assistant Cook, Marine	Chief Cook, Marine
Second Cook, Marine	

Job Content Factors

<b>Workers</b>	
FP: GE NFR PSP3-4y(T)	IP: T3w
HC: R	RQ: D2
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N1
<b>Functions</b>	
MA: D2 R3 L3	
PA: U1 H2 S2 W1 E2	SA: A1 S2
<b>Context</b>	
EC: L1	TC: A1 I1 R2
SS: 10	SC: 10 ( 2y)
LMS: 250 (0 %SE)	ASIC: 530

4231-D COOK, FOREIGN FOODS

Prepares and cooks foreign foods according to traditional recipes and methods in hotels, restaurants, and similar establishments.

Performs duties similar to those of 4231-B COOK, QUALIFIED. Prepares foodstuffs according to traditional recipes and methods, ensuring established standards of quality and presentation are met. Uses traditional cooking utensils and techniques. Orders speciality foods or ingredients. Prepares and serves special dishes at patrons' table, performing feats of culinary dexterity to entertain customers. Supervises activities of kitchen workers.

May specialise in cooking in a particular traditional manner and be designated accordingly, e.g.

Cook, Chinese Foods	Cook, Greek Foods
Cook, Italian Foods	

Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP: T2y
HC: RIS	RQ: D1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N1 M2
<b>Functions</b>	
MA: P2 D2 R3 M3 L2	
PA: U1 H1 S2 W1 E3	SA: S1 I2 B2 R4
<b>Context</b>	
EC: L1	TC: A1 I1 T2
SS: 4	SC: 8 ( 3y)
LMS: 7500 (0 %SE)	ASIC: 92

4232 APPRENTICE COOKING OCCUPATIONS

This unit group covers apprentice occupations in cooking.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

4232-A APPRENTICE COOK

Receives instruction and training in the trade of cooking.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to training schedule.

Job Content Factors

Workers	
FP: GE10y	IP:
HC: RIS	RQ: D2

Materials	
SM: D2 T1	EQ: S1 N1 M2
Functions	
MA: P2 D2 R3 M3 L2	
PA: U1 H2 S2 W1 E3	SA: S1
Context	
EC: L1	TC: A1 I1 T2
SS: 1	SC: 1 ( 4y)
LMS: 600 (0 %SE)	ASIC: 92

4233 COOKING OCCUPATIONS, NON-TRADE

This unit group covers occupations concerned with preparing and cooking meals of a less complex nature and usually for smaller numbers of persons.

**Entry Requirements** no formal entry requirements, however previous work experience in this area is desirable.

**Activities include** performing cooking functions similar to 4231-B COOK, QUALIFIED.

4233-A COOK, DOMESTIC

Plans menus and prepares and cooks meals in private homes.

Performs cooking duties similar to those of 4231-B COOK, QUALIFIED. Confers with employer to plan menus. Purchase foodstuffs according to preference of employer. Seasons foods according to taste. Portions and arranges foods on plates and trays and serves meals. Cleans kitchen and cooking utensils.

May freeze and preserve foods.

Job Content Factors

Workers	
FP: GE NFR	IP: T(v) E(v)
HC: RS	RQ: D2
Materials	
SM: D2 P2 T1	EQ: S2 N1 M2
Functions	
MA: P2 D2 R3 M3 L2	
PA: U1 H2 S2 W1 E2	SA: A1

Context	
EC: L1	TC: A1 I1 R2
SS: 1	SC: 2 (vy)
LMS: 2000 (0 %SE)	ASIC: 940

4233-B COOK, BREAKFAST  
Short Order Cook

Prepares and cooks breakfasts and other simple meals in hotels, motels, lodging houses, cafeterias, snack bars and similar establishments.

Performs cooking duties similar to those of 4231-B COOK, QUALIFIED. Prepares and cooks breakfasts and other simple meals to fill orders. Places cooked items on plates, transfers them to service employees or serves customers at tables. Records usage of food supplies and notifies chef of catering requirements.

May accept payment for meals. May clean work area and cooking utensils.

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T(v) E(v)
HC: RI	RQ: D2
<b>Materials</b>	
SM: D2 P2 T1	EQ: S2 N1
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: U1 H2 S2 W1 E2	SA: A1
<b>Context</b>	
EC: L1	TC: A1 I1 R2
SS: 1	SC: 2 (vy)
LMS: 2000 (0 %SE)	ASIC: 92

**4233-C COOK, FAST FOOD**  
**Fast Food Preparer**

Prepares and cooks foods or cooks partially prepared foods to provide fast food service for patrons of snack bars, take-away food and similar establishments.

Prepares ingredients for daily fast food operation and partially cooks food in advance of orders. Assembles, cooks or heats, garnishes, and portions partially-prepared ingredients to fill orders. Wraps and packages take-away food, passes incomplete order to other workers for completion or places order on counter. Cleans work area, utensils and equipment. Performs other miscellaneous duties as required.

May keep records of production or sales. May take telephone orders.

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T(v) E(v)
HC: RIS	RQ: D2
<b>Materials</b>	
SM: D2 P2 T1	EQ: S2 N1
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 H2 S2 W1 E2	SA: A1 S2
<b>Context</b>	
EC: L1	TC: A1 I2 R1 T2
SS: 1	SC: 2 (2y)
LMS: 5000 (0 %SE)	ASIC: 92

**4233-Z COOKING OCCUPATIONS, NON-TRADE**  
**nec**

This residual group covers non-trade cooking occupations concerned with preparing and cooking foods not elsewhere classified in Unit Group 4233, e.g.

Shearers' Cook

**4234 BEVERAGE PREPARATION AND BAR SERVICE OCCUPATIONS**

This unit group covers occupations concerned with preparing and selling drinks over the bar.

**Entry Requirements** no formal entry requirements, however work experience or basic vocational qualification in this area is preferred. Persons must be 18 years old to conform with licensing regulations.

**Activities include** mixing and serving drinks, accepting payment and giving change, selling bulk beverages and keeping the area tidy.

**Related Occupations**

Major Group 41 : Sales Occupations

**4234-A BAR ATTENDANT**  
**Cocktail Bar Attendant**

Mixes, sells and serves alcoholic and non-alcoholic drinks to patrons of licenced premises.

Mixes ingredients such as liquor, soda, water, fruit juices, sugar and bitters to prepare cocktails and other drinks. Serves beer, wines, spirits, liqueurs and other alcoholic and non-alcoholic drinks to patrons. Sells bottled, canned and other packaged alcoholic and non-alcoholic beverages over counter. Sells light snacks such as potato chips and beer nuts. Collects payment on sales made and operates cash register. Replenishes drink dispensers, shelves and refrigerators with new supplies. Inserts spigot into unopened keg and attaches to supply lines. Places used glassware into automatic dishwashing machine for cleaning or washes by hand. Arranges bottles and glasses to form attractive displays. Slices and pits fruits to garnish drinks. Places dyes in drip trays. Cleans and maintains bar service area.

May assist drive-in bottle shop attendant. May take orders for counter meals. May sell miscellaneous items such as cigarettes, tobacco and matches.

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR PSP12w(B)	IP:
HC: SEC	RQ: D2
<b>Materials</b>	
SM: P1 T2	EQ: S2 N1
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: U1 H2 W1 E3	SA: S1 L2 I1
<b>Context</b>	
EC: L1	TC: A1 I1 R2
SS: 1	SC: 2 (vy)
LMS: 10000 (0 %SE)	ASIC: 92

## 4235 FOOD AND BEVERAGE SERVING OCCUPATIONS

This unit group covers occupations concerned with reserving and arranging dining room tables, greeting and seating customers, and serving food and beverages in formal and informal settings in hotels, clubs, restaurants, cafeterias, ships and railway dining cars.

**Entry Requirements** in most cases a trade qualification or work experience.

**Activities include** preparation of the dining or refreshment area, servicing of customers, payment for goods and cleaning of tables.

### *Related Occupations*

Major Group 41 : Sales Occupations

### 4235-A WAITER/WAITRESS, FORMAL SERVICE

Serves food and beverages, in formal dining setting, to guests in hotels, restaurants, clubs and similar establishments.

Sets table with clean linen, cutlery, glasses, condiment holders and centre pieces. Presents menu to patrons and suggests food dishes. Answers questions regarding service and food preparation. Writes down order and relays to kitchen or bar staff. Carries tray or pushes cart to transport food and beverages to patron's table. Garnishes dishes and carves meat preparatory to serving. Serves food from chafing or warming dish to patrons at table. Attends patrons to fulfill any additional requests and ensure smooth transition from course to course. Presents bill to patrons and accepts payment or signature. Clears table and returns dirty dishes and cutlery to kitchen. Removes linen for laundering.

May suggest appropriate wines to complement meals. May serve wines and alcoholic beverages. May prepare and serve flaming dishes at patron's table.

#### *Job Content Factors*

<i>Workers</i>	
FP: GE NFR PSP30m(T)	IP: T1y
HC: RSE	RQ: D1
<i>Materials</i>	
SM: P1 T2	EQ: N1
<i>Functions</i>	
MA: D2 R3 L2	
PA: U1 H2 W1 E2	SA: S1 L2 I1
<i>Context</i>	
EC: L1	TC: A1 I2 R2
SS: 1	SC: 4 (vy)
LMS: 4000-5000(0 %SE)	ASIC: 92

### 4235-B WINE WAITER/WAITRESS Wine Steward/Stewardess

Suggests and serves wine, in formal dining setting, to guests in hotels, restaurants, clubs and similar establishments.

Studies menu and wine list to recommend wines complementary to food orders. Greets guests, presents wine list and suggests appropriate wines. Takes wine order and obtains wine from bartender. Drapes wine bottle in table napkin, places in appropriate holder or ice bucket and carries to table. Adjusts napkin to show label of bottle so that guest may verify order. Opens wine bottle, pours small amount into glass for tasting by guest, and fills other glasses when wine is approved. Adds wine cost to food bill. Checks frequently to refill glasses. Serves alcoholic and other drinks to guests on request. Replaces wine glasses according to types of wine being served. Removes empty bottles and wine containers from tables and replaces in storage area.

#### *Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T2y
HC: RSE	RQ: D1
<i>Materials</i>	
SM: P1 T2	EQ: N1
<i>Functions</i>	
MA: D2 R3 M3 L2	
PA: U1 H2 W1 E2	SA: S1 L2 I1
<i>Context</i>	
EC: L1	TC: A1 I2 R2
SS: 1	SC: 4 (vy)
LMS: 10000 (0 %SE)	ASIC: 92

### 4235-C HOST/HOESSE

Welcomes patrons of dining establishment.

Receives and records dining reservations over telephone. Schedules dining reservations and reserves tables for patrons. Makes arrangements for special functions such as parties. Escorts patrons to their tables and presents menus. Attends patrons to fulfill any additional requests and relays to waiters/waitresses. Ensures serving stations are properly equipped, neat and clean. Assists in settling complaints.

May assist in service of patrons. May present bill to patrons and accept payment or signature.

#### *Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T3m
HC: SCE	RQ: D1
<i>Materials</i>	
SM: D2 P1 T2	EQ:
<i>Functions</i>	
MA: D2 R3 M3 L2	
PA: S2 W2 E2	SA: S2 L2 I1
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 1	SC: 2 (vy)
LMS: 5000 (0 %SE)	ASIC: 92

### 4235-D WAITER/WAITRESS, GENERAL Steward/Stewardess

Performs any combination of the following duties to provide service to patrons in dining areas.

Sets table with tablecloth, cutlery, glasses and centrepieces. Presents menu, answers questions and makes suggestions regarding food and beverages. Writes down order and relays to kitchen or bar staff. Fills water glasses and serves bar orders. Serves food and beverages from tray. Presents bill to patrons at conclusion of meal. Clears table and returns dirty

dishes and cutlery to kitchen. Removes tablecloths for laundering. Moves and arranges tables and chairs for dining functions, as required.

#### Job Content Factors

##### Workers

FP: GE NFR

IP: T4w

HC: RSE

RQ: D1

##### Materials

SM: D2 P1 T2

EQ: N1

##### Functions

MA: D3 R4 M3 L2

PA: U1 H2 S2 W1 E2

SA: S1 L2 I1

##### Context

EC: L1

SS: 1

TC: A1 I2

SC: 2 (vy)

LMS: 67000 (0 %SE)

ASIC: 92,52,53,54,55

## 4239 OTHER FOOD AND BEVERAGE PREPARATION AND RELATED SERVICE OCCUPATIONS

This unit group covers occupations concerned with food and beverage preparation.

**Activities include** collecting supplies for the kitchen, and cleaning work area.

### 4239-A

#### KITCHENHAND

##### Catering Assistant; Pantrymaid/man

Performs any combination of the following duties to assist other kitchen and service staff in the preparation and service of food, and the cleaning of food preparation and service areas in hotels, motels, restaurants, clubs, hospitals, cafeterias and similar catering establishments.

Transfers supplies and equipment between storage and work area by food tray or trolley. Assists in weighing, checking and preparing meats. Washes, peels and prepares vegetables using knives, peelers, or food slicing, peeling and blending machines. Assists in the preparation of items such as salads, savouries and sandwiches, and cooks, toasts or heats other simple food items. Assembles or partially assembles or packs food and beverage trays for serving. Moves cutlery, crockery, table linen and condiments to and from kitchen and eating areas using trays and trolleys. Assists in service of food and beverages to patrons. Replenishes condiments and other food supplies. Scrapes food from dirty pots, pans and dishes, and removes scraps from preparation areas and places in refuse containers. Washes cooking utensils, cutlery and crockery by hand or by placing in automatic dishwashing machines. Removes dirty linen and places in laundering basket. Washes and cleans meat and other food processing equipment. Washes and cleans walls, tiles, work benches, stoves, freezers and refrigerators. Sweeps floors in kitchen, food preparation and food serving areas. Mops floors using disinfecting agents and other cleansers.

May work in a particular industry sector and be designated accordingly, e.g.

Sculleryman/woman

#### Job Content Factors

##### Workers

FP: GE NFR

IP: T1m

HC: RSC

RQ: D2

##### Materials

SM: D2 T1

EQ: N1 M2

##### Functions

MA: D3 R4 M3 L3

PA: U1 H1 W1 E3

SA: S1

##### Context

EC: L1

SS: 1

TC: A1 I2 R2

SC: 2 (vy)

LMS: 20000 (0 %SE)

ASIC: 92,81

### 4239-B

#### CANTEEN ASSISTANT

Prepares food at school or workplace canteen.

Makes sandwiches, prepares fillings, heats pre-prepared items such as pies, sausage rolls and pasties. Keeps work area clean and hygienic, and cleans food preparation utensils.

May sell food items at counter. May be designated,  
Snack Bar Assistant                      Tea Lady/Man

#### Job Content Factors

##### Workers

FP: GE NFR

IP: T1-2m

HC: RSC

RQ: D2

##### Materials

SM: D2 P1 T2

EQ: N1 M2 K2

##### Functions

MA: D3 R4 M3 L3

PA: U1 H1 W1 E3

SA: S1 I1

##### Context

EC: L1

SS: 1

TC: A1 I1 R2 T2

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 4239-Z

#### FOOD AND BEVERAGE PREPARATION AND RELATED SERVICE OCCUPATIONS nec

This residual group covers occupations concerned with food and beverage preparation and related activities, not elsewhere classified in Unit Group 4239.

MINOR GROUP 424  
ACCOMMODATION OCCUPATIONS

Accommodation Occupations are classified in the following unit groups.

- 4240 Supervisors, Accommodation and Related Occupations
- 4241 Accommodation Support Occupations

4240 SUPERVISORS, ACCOMMODATION AND RELATED OCUPATIONS

This unit group covers occupations concerned with providing accommodation services in establishments such as hotels, motels, apartment houses, office buildings caravan parks, youth hostels and other similar facilities on own or owner's behalf, or in partnership; and supervising and co-ordinating the activities of personnel engaged in servicing apartment houses, guest rooms in hotels, motels, tourist homes and other lodging facilities; and in providing services to the clients of such establishments.

**Entry Requirements** 1-10 years' related work experience and, in some cases, a para-professional/ associate diploma qualification in an appropriate area.

**Activities include** supervising staff in contact with residents, other staff engaged in maintaining the building and necessary services, cooking, eating and drinking, supervisory liaison and contact with owners or managing bodies; allocating accommodation, receipt of payment, cleaning facilities, arranging for repairs and maintenance, providing information and ensuring comfort of lodgers and keeping accounts.

4240-A BUILDING SUPERVISOR

Supervises and co-ordinates activities of employees engaged in keeping office or apartment buildings and grounds in clean and orderly condition and in maintaining and repairing utility systems and physical structures of buildings.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Inspects buildings regularly to determine necessity for repair work. Directs and assists maintenance staff in duties such as painting, gardening, cleaning, and repairing heating, cooling and plumbing systems. Determines need for outside services beyond scope of building staff. Purchases building supplies and equipment. Submits reports on condition of building to manager or owner of building. Liaises with tenants and handles their complaints.

May oversee reception and security of tenants and visitors, using security systems or employing security personnel. May show apartments or offices to prospective tenants and explain rental scales, leases and services. May hold appropriate professional qualifications and be designated accordingly, e.g. Plant Engineer (Building)

Job Content Factors

<i>Workers</i>	
FP: GE10-12y	IP: T2m E5-10y
HC: SRE	RQ:
<i>Materials</i>	
SM: P1 T2	EQ: N2
<i>Functions</i>	
MA: P2 D2 R2 M3 L2	
PA: U2 S2 W2 E2	SA: S1 L2 I1 B1 R3-4

Context

EC: L1	TC: A1 I2
SS: 9	SC: 9 (yy)
LMS: 50-100 (0 %SE)	ASIC: Many

4240-B MANAGING SUPERVISOR,  
HOTEL/MOTEL/LODGING HOUSE  
Hotel/Motel Manager; Resort Manager

Plans, organises, directs and controls the operations of hotel, motel, vacation resort or other lodging facility on own or owner's behalf or in partnership, and co-ordinates activities of subordinate workers.

Performs duties as described under Master Title MANAGING SUPERVISOR. Plans, directs and controls the organisation, administration and operation of organisational units such as reception, dining room, kitchen, licensed bar area, accounting, housekeeping, purchasing and maintenance. Establishes and maintains standards of personal performance service to guests.

May perform any of the duties normally undertaken by staff, such as cleaning, maintenance, and cooking, to ensure the continued operation of an establishment.

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP3y(Adip)	IP: E3y
or FP: PSP2y(PPC)	IP:
HC: SEC	RQ:
<i>Materials</i>	
SM: D2 P1	EQ:

*Functions*

MA: P1 D2 R2 M2 L2

PA: S1 W2 E1

SA: A2 S1 I2 M2 B2 R3-4

*Context*

EC: L1

TC: A1 I1

SS: I0

SC: I0 (vy)

LMS: 3000-5000(0 %SE)

ASIC: 92

**4240-C EXECUTIVE HOUSEKEEPER**  
**Housekeeper**

Supervises and co-ordinates activities of employees engaged in keeping hotels, motels, lodging houses and similar establishments in clean and orderly condition.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Inspects and evaluates physical condition of establishment and submits recommendations to management for painting, repairs, furnishing, relocation of equipment and reallocation of space. Inventories supplies and equipment. Investigates new or improved cleaning materials and instruments. Co-ordinates activities with those of room service and other departments. Selects and purchases new furnishings. Inspects accommodation units after cleaning to ensure standards of cleanliness are met. Ensures staff are aware of special security arrangements which apply for important guests.

May select uniforms for staff.

*Job Content Factors**Workers*

FP: GE NFR

IP: T2y

HC: SEC

RQ:

*Materials*

SM: D2 P1

EQ:

*Functions*

MA: P1 D2 R2 M3 L2

PA: S2 W2 E2

SA: S1 B1 R2-3

*Context*

EC: L1

TC: A1 I2 R2

SS: 3

SC: 5 (vy)

LMS: 2000 (0 %SE)

ASIC: 92

**4240-D HOTEL CONCIERGE**  
**Head Porter**

Supervises and co-ordinates activities of staff engaged in escorting guests to rooms and carrying baggage, in hotel.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Assigns duties to hotel porters, compiles duty roster, recommends hiring and firing of staff, initiates disciplinary measures and maintains personnel and attendance records. Arranges for the training of new staff. Ensures sufficient staff available to cope with large groups booking in or out of hotel. Books tours on behalf of hotel guests. Handles guests' complaints.

May supervise operation of hotel parking service.

*Job Content Factors**Workers*

FP: GE NFR

IP: E2y

HC: CSE

RQ: D2

*Materials*

SM: D2 P2 T2

EQ:

*Functions*

MA: P2 D2 R3 M3 L2

PA: U2 H2 S2 W2 E2

SA: S1 L2 I1 B1 R3-4

*Context*

EC: L1

TC: A1 I2

SS: 2

SC: 3 (vy)

LMS: 100 (0 %SE)

ASIC: 92

**4240-E MANAGER, LODGING**  
**ESTABLISHMENT**

Operates motel, vacation resort, boarding house, hostel or other lodging establishment on own or owner's behalf.

Registers lodgers, assigns accommodation, collects payment and issues receipts. Cautions lodger regarding undesirable behaviour, if required, answers inquiries, and settles complaints. Cleans facilities, rooms and grounds of building. Mows lawn, maintains gardens and collects and removes debris. Makes minor repairs to building and makes arrangements for major repairs. Changes linen, makes beds and launders linen. Issues soap, towels and other supplies to lodgers. Prepares and serves meals, clears dishes from table and washes dishes.

May interview prospective lodgers prior to acceptance. May be designated according to the type of establishment managed, e.g.

Working Manager, Boarding House  
Working Manager, Hotel

*Job Content Factors**Workers*

FP: GE NFR

IP: T2w E1-10y

HC: CSE

RQ:

*Materials*

SM: D2 P1

EQ: S2 N1

*Functions*

MA: D2 R3 M3 L2

PA: U1 H2 S1 W2 E3

SA: A2 S2 I1

*Context*

EC: L4

TC: A1 I2

SS: 9

SC: 9 (2 y)

LMS: 3000-5000(0 %SE)

ASIC: 92

**4240-F PARK MANAGER, CARAVAN**

Operates and maintains lodging facilities and grounds at caravan and tourist parks.

Registers guests, assigns accommodation and collects payment. Gives information to guests concerning local places of interest and recreational facilities. Answers inquiries and attends to complaints. Takes reservations, and phone messages for guests. Cleans and maintains gardens and removes and disposes of rubbish. Clears fire breaks and removes debris to reduce fire hazards. Cleans facilities, on site accommodation and recreation area. Makes minor repairs to building, barbecues and facilities. Chops wood for use in barbecues. Ensures no disorderly conduct, expelling guests if necessary. Keeps accounts, deposits payments and orders supplies.

May hire equipment to guests. May sell supplies to guests. May supervise and direct subordinate staff. May advertise vacancies.

*Job Content Factors**Workers*

FP: GE NFR

IP: T2w E1-10y

HC: CSE

RQ: L1

*Materials*

SM: D2 P1

EQ: S2 N1 V2

*Functions*

MA: D2 R3 M3 L2

PA: U1 C2 H2 S2 W1 E3

SA: S1 I1 B2 R4

*Context*

EC: L4

TC: A1 I1

SS: 5

SC: 8 (vy)

LMS: 1000-2000(0 %SE)

ASIC: 92

**4240-G RECREATION CAMP WARDEN**  
**Youth Hostel Warden**

Controls operation of recreation camp site.

Greets guests and shows them the accommodation and recreation facilities and explains camp rules. Gives information to guests concerning local tourist attractions and recreational facilities. Directs activities of subordinate workers. Ensures grounds kept clean, fire hazards removed and grass and gardens maintained. Chops wood, using chain saw or provides axe for guests' use. Makes minor repairs to buildings and facilities or ensures repairs carried out by subordinate

staff. Ensures necessary laundering carried out. Enforces camp rules. Checks accommodation facilities adequately prepared prior to guests' arrival and cleans rooms if necessary. Maintains register of arrivals and departures and inventory of items provided for guests' use.

May mow and water lawns, trim trees, maintain garden beds and remove litter from camp grounds. May hire equipment to guests. May take reservations for accommodation. May collect payment from guests.

#### Job Content Factors

##### Workers

FP: GE NFR IP: T2w E1-10y  
HC: RSE RQ:

##### Materials

SM: P1 T2 EQ: N1 M2

##### Functions

MA: P1 D2 R3 M3 L2  
PA: U1 H2 S2 W1 E3 SA: S2 L1 I1 B1 R3-4

##### Context

EC: L4 TC: A1 I1  
SS: 3 SC: 5 (vy)

LMS: 100-250 (0 %SE) ASIC: 92

#### 4240-H CARETAKER

Cleans and maintains apartment building and associated grounds, performing any combination of the following duties.

Collects rentals and issues receipts. Fills out forms to complete or renew leases. Provides tenants with copy of building rules. Cleans and maintains grounds and gardens or directs contract staff and collects and removes litter. Cleans common facilities and vacant apartments, replaces light bulbs, checks fire hoses and extinguishers and performs other cleaning and maintenance duties as required. Purchases cleaning supplies. Notifies management or owner of building of need for major repairs. Cautions tenants regarding excessive noise, disorderly conduct or abuse of property, if required. Patrols building to ensure all secure.

May advertise vacancies in newspapers or post notices outside building, and show apartments to prospective tenants. May use security systems or liaise with security personnel to oversee reception and security of tenants and visitors.

#### Job Content Factors

##### Workers

FP: GE NFR IP: T2w E1-5y  
HC: RC RQ:

##### Materials

SM: D2 P2 T1 EQ: N1 M2 W2

##### Functions

MA: D2 R3 M3 L2  
PA: U1 H2 S2 W1 E3 SA: A2 S1 I1

##### Context

EC: L4 TC: A1 I1  
SS: 4 SC: 4 (vy)

LMS: 20000 (0 %SE) ASIC: Many

### 4241 ACCOMMODATION SUPPORT OCCUPATIONS

This unit group covers occupations concerned with the provision of house service and the maintenance and repair of accommodation facilities and grounds.

**Entry Requirements** no formal entry requirements, however related work experience may be required.

**Activities include** the providing of clean linen and rooms ready for use, neat and tidy grounds or surroundings and repair of faulty equipment or facilities.

#### 4241-A HANDYMAN/WOMAN

Cleans, paints, repairs and maintains accommodation or lodging establishment, by performing any combination of the following duties.

Repairs broken windows, screens, doors, fences, barbecues, picnic tables, shelves, cupboards and other articles requiring minor repairs. Replaces light bulbs. Repairs damaged plaster. Paints interior and exterior surfaces, such as walls, ceilings and fences. Hoses driveways. Clears litter and leaves from grounds, mows lawns and cultivates gardens and shrubbery.

May carry out cleaning duties.

#### Job Content Factors

##### Workers

FP: GE NFR IP: T1w E5y  
HC: RS RQ:

##### Materials

SM: T1 EQ: S1 N1 M2 W2

##### Functions

MA: D3 R4 L3  
PA: U1 H2 S2 W1 E3 SA: A1 S2

##### Context

EC: L4 TC: A1  
SS: 2 SC: 3 (vy)

LMS: 30000 (0 %SE) ASIC: Many

#### 4241-B GROUNDSMAN/WOMAN, LODGING AND ACCOMMODATION

Cleans, and maintains grounds of accommodation establishment or camping grounds and associated facilities.

Mows lawns, rakes grass and leaves, trims trees and maintains garden beds. Operates reticulation system. Collects and disposes of litter. Checks fire hoses and extinguishers. Clears debris and cuts fire breaks to reduce risk of fire. Makes minor repairs to picnic tables, equipment and buildings. Cleans facilities.

May drive truck. May operate tractor. May challenge entry of unauthorised persons.

#### Job Content Factors

##### Workers

FP: GE NFR IP: T1w E1-5y  
HC: RS RQ: L2 S2

##### Materials

SM: T1 EQ: N1 V2 W2

<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 H2 W1 E3	SA: A1 S2
<i>Context</i>	
EC: L2	TC: A1
SS: 2	SC: 3 (vy)
LMS: 2000 (0 %SE)	ASIC: 92

**4241-C           HOUSEMAN/MAID**  
**Housekeeper, Lodging and Accommodation**

Cleans rooms in hotels, motels and other lodging establishments.

Sweeps and mops floors, dusts furniture and vacuums carpets, curtains and upholstered furniture. Empties wastebaskets and ashtrays. Scrubs and disinfects bathroom fixtures and replaces expendable supplies. Polishes fixtures and furniture. Receives and stores linen supplies. Changes linen and makes beds, checking mattresses and blankets for wear, tears and stains.

Takes laundry or dry cleaning orders from guests. Replaces desk writing equipment such as envelopes, biros and writing paper. Ensures television, radio and lights working. Reports damage, theft and articles found to supervisor.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: RS	RQ:
<i>Materials</i>	
SM: D2 P2 T1	EQ: N1 M2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H2 S2 W2 E2	SA: A1 S2
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 3	SC: 3 (vy)
LMS: 17000 (0 %SE)	ASIC: 94,92

**MINOR GROUP 425**  
**CLEANING, LAUNDERING AND RELATED OCCUPATIONS**

Cleaning, Laundering and Related Occupations are classified in the following unit groups.

- 4250 Supervisors, Laundering, Dry-Cleaning and Related Occupations
- 4251 Cleaning Occupations
- 4252 Dry-Cleaning Occupations
- 4253 Dry-Cleaning Apprentice Occupations
- 4254 Washing and Drying Machine Occupations
- 4255 Pressing Occupations
- 4259 Other Cleaning, Laundering and Related Occupations

**4250 SUPERVISORS, LAUNDERING, DRY-CLEANING AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with providing laundering, dry-cleaning, pressing and related services.

**Entry Requirements** considerable previous work experience and, in some cases, a trade qualification.

**Activities include** the efficient operating of a laundry or dry-cleaning establishment and supervising the employees therein; performs duties described under Master Titles MANAGING SUPERVISOR or SUPERVISOR/FOREMAN/WOMAN.

**4250-A MANAGING SUPERVISOR,  
LAUNDERING AND DRY-CLEANING  
ESTABLISHMENT**

Plans, organises, directs and controls the operations of a laundering or dry-cleaning establishment on own, or owner's behalf, or in partnership, and supervises and co-ordinates activities of subordinate staff, by performing any combination of the following duties.

Performs duties as described under Master Title MANAGING SUPERVISOR. Plans, directs and controls the organisation of operations such as dry-cleaning, laundry, finishing and dispatch. Determines standards and production rates in accordance with company policy, type of equipment and work loads. Confers with company officials and representatives to plan for improved services and new equipment and materials.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T6m E1y
HC: ESC	RQ:
<i>Materials</i>	
SM: P2 T1	EQ:
<i>Functions</i>	
MA: P1 D2 R2 M2 L2	
PA: S1 W2 E2	SA: A2 S1 I2 B1 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 4	SC: 4 (vy)

LMS: 500-1000 (0 %SE)

ASIC: 93

**4250-B FOREMAN/WOMAN, LAUNDERING  
AND DRY-CLEANING OCCUPATIONS**

Supervises and co-ordinates activities of staff engaged in one or more occupations in a laundry or dry-cleaning establishment.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Oversees staff performing duties such as operating washing or dry-cleaning machine, cleaning and sorting articles by hand, and finishing articles using pressing or ironing machine or hand iron.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T6m E1y
or FP: GE10y PSP4yT	IP: E1y
HC: SEC	RQ:
<i>Materials</i>	
SM: P1 T2	EQ: M2
<i>Functions</i>	
MA: D2 R3 L2	
PA: H2 S2 W1 E2	SA: S1 B1 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 3	SC: 3 (vy)

LMS: 500-1000 (0 %SE)

ASIC: 934

### 4251 CLEANING OCCUPATIONS

This unit group covers occupations concerned with industrial and commercial cleaning and the cleaning of buildings (including hospitals, factories and offices) vehicles, windows, carpets, streets, aircraft and chimneys.

**Entry Requirements** no formal entry requirements.

**Activities include** the use of commercial cleaning equipment in non-domestic establishments, public areas and transport.

#### 4251-A INDUSTRIAL CLEANER

Uses heavy duty cleaning equipment to clean industrial work areas, equipment, machinery, containers, building and construction sites, performing any combination of the following duties.

Sweeps and mops floors, using hand equipment. Operates industrial vacuum cleaner to remove scrap, dirt, heavy debris and other refuse from work areas and around machines. Removes rubbish and empties bins. Hoses work area with water, if required. Removes dust and dirt from ceiling, walls and overhead pipes and fixtures. Strips old wax from floor, if required, and waxes and polishes floor using power machine with attachments. Operates water, air, and sand and water high pressure hoses; applies acids or solvents to surface with cloths and brushes; uses scrapers and wire brushes; or uses pick, shovel and broom to remove lint, dust, soot, oil, grease, sludge and other residues from work area, machines, turbines, the interior of freight cars or the holds of ships, the interior and exterior of furnaces, boilers and tanks, construction sites, or the exterior surfaces of buildings.

May wash windows. May clean hulls of ships. May dismantle machinery prior to cleaning. May clean equipment used in the preparation or packaging of food and observe hygiene regulations. May spray equipment or area with disinfectant. May clean moving machinery. May supervise other industrial cleaners, or may specialise in the cleaning of a particular type of equipment and be designated accordingly, e.g.

Cleaner, Abattoir  
Cleaner, Construction  
Cleaner, High Pressure Water  
Cleaner, Power House  
Supervisor, Industrial Cleaners  
Cleaner, Boiler  
Cleaner, Freight Car  
Cleaner, Steam

##### Job Content Factors

<b>Workers</b>	
FP: GE NFR	IP: T2w
HC: RC	RQ: D2
<b>Materials</b>	
SM: T1	EQ: N1 M2
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 C2 H2 W1 E4	SA: A1 S2
<b>Context</b>	
EC: L1 C06,08	TC: A1 I2 R2
SS: 3	SC: 3 (vy)
LMS: 5000 (0 %SE)	ASIC: 6387

#### 4251-B COMMERCIAL CLEANER

Cleans premises of commercial establishments, office and apartment buildings and domestic residences, by performing any combination of the following duties.

Unlocks premises to gain entry and locks premises on departure. Empties and cleans ash trays, waste baskets and other waste containers, inserts liners in waste containers if required, and removes trash. Sweeps and mops floors and

operates scrubbing and polishing machines to clean and polish floor areas, vacuums carpets, drapes and upholstered furniture. Cleans and polishes furniture, fittings and fixtures. Cleans and disinfects toilet fixtures and replenishes expendable supplies. Empties cleaning machines of waste or excess cleaning solutions. Reports defective plumbing fixtures, unlocked doors and rest room supply shortages to employer.

May clean walls and windows. May shampoo carpet and rugs. May strip wax from floor manually or using power equipment. May perform minor repairs on equipment and machines. May specialise in the operation of a particular type of equipment, or in the cleaning of a particular type of establishment, or in the internal stripping and cleaning of aircraft and be designated accordingly, e.g.

Cleaner, School  
High Speed Polisher Operator

##### Job Content Factors

<b>Workers</b>	
FP: GE NFR	IP: T2w
HC: RC	RQ: D2
<b>Materials</b>	
SM: T1	EQ: S2 N1 M2
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 C2 H2 W1 E4	SA: A1 S2
<b>Context</b>	
EC: L1 C06,08	TC: A1 I2 R2
SS: 3	SC: 3 (vy)
LMS: 25000 (0 %SE)	ASIC: 6387

#### 4251-C HOSPITAL CLEANER

Performs cleaning duties in hospital.

Washes and disinfects floors of hospital wards, halls and rooms. Polishes floors using electronic polisher and vacuums carpeted area. Empties ash trays and waste baskets, dusts or washes furniture, ledges and fixtures using cloth or wet sponge. Cleans and disinfects bathrooms and bathroom fixtures and fills dispensers. Scrubs walls and ceilings and washes windows.

May remove used linen from beds, wash, and make beds with clean linen. May remove and replace screen curtains. May clean and disinfect operating theatre, following hospital procedure to ensure dust kept to a minimum and to reduce risk of contamination of sterile area. May sterilise bed pans using autoclave.

##### Job Content Factors

<b>Workers</b>	
FP: GE NFR	IP: T2w
HC: RC	RQ: D2
<b>Materials</b>	
SM: T1	EQ: N1 M2
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 C2 H2 W1 E3	SA: A1 S2

<i>Context</i>	
EC: L1	TC: A1 I2 R2
SS: 4	SC: 5 (3y)
LMS: 10000 (0 %SE)	ASIC: 814,6387

**4251-D WINDOW CLEANER**

Cleans interior or exterior windows and glass-covered surfaces of building.

Drives vehicle containing ladders, scaffolds and cleaning materials to location. Stands on ground or floor or uses ladders, bosun's chair, swing stage or other scaffolding equipment to reach windows. Wears safety equipment attached to appropriate supports, when required. Cleans glass surfaces using water hose or by applying soapy water or other cleaning solution with brush, cloth, sponge or spray gun. Removes cleaning solution and dries surface using squeegee, chamois or absorbent cloth. Disassembles ladder and scaffolding upon completion of job and reloads window cleaning equipment onto vehicle.

May clean stone walls, metal cladding and facias.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: RC	RQ: D2
<i>Materials</i>	
SM: T1	EQ: N1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 S1 B2 E3	SA: A1
<i>Context</i>	
EC: L4 C08,12	TC: A1 I2 R2
SS: 4	SC: 4 (vy)
LMS: 5000 (0 %SE)	ASIC: 6387

**4251-E CARPET CLEANER**

Operates carpet cleaning machines to clean carpets on customers' premises.

Examines and measures carpet to determine cleaning fee. Vacuums carpet to remove loose dirt. Selects spotting agent to remove stains according to type of figure, dye and stains. Sprays stains to facilitate removal. Fills tank of cleaning machine with water and cleaning agent. Pushes scrubbing machine over carpet or brushes carpet with steam ejecting wand to loosen embedded dirt. Pushes pile-lifting machine over carpet, or brushes pile with broom to raise and fluff nap.

May clean upholstered furniture using attachments to steam or dry-cleaning machine. May spray soil retardant onto carpet. May apply dye to carpet.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T3m
HC: RC	RQ: L2
<i>Materials</i>	
SM: T1	EQ: N1 M2 V2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 H2 W1 E4	SA: A2 S2
<i>Context</i>	
EC: L1 C06,08	TC: A1 I1 R2
SS: 3	SC: 3 (vy)
LMS: 2000-3000(0 %SE)	ASIC: 9340

**4251-F VEHICLE CLEANER**

Cleans interiors and exteriors of vehicles such as cars, buses, railway passenger cars and trucks by performing any combination of the following duties.

Collects debris from vehicle and places in garbage receptacle. Cleans interior surfaces such as floors, floor mats, door panels, walls, ceilings, windows, fittings and dash, using broom, vacuum cleaner, cloths, soap and water and cleaning

agents. Scrubs and disinfects bathroom and changes linen in sleeper carriages. Cleans exterior of vehicle to remove heavy dirt and grease using water, cleansers, brushes, broom, hose and spray gun. Applies waxes with cloth and polishes by hand, or using electric buffer. Cleans work area using broom and mop.

May drive vehicle through automatic vehicle wash to clean exterior of vehicle. May specialise in the detailed cleaning of cars, using correct solvents to remove stains, and suitable polishes; or in the cleaning of a particular type of vehicle and be designated accordingly, e.g.

Car Detailer  
Supervisor, Vehicle Cleaners

Cleaner, Car

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: RC	RQ: L2 D2
<i>Materials</i>	
SM: T1	EQ: N1 M1 V2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 S2 W2 E3	SA: A2 S2
<i>Context</i>	
EC: L4 C06,08	TC: A1 R2
SS: 3	SC: 3 (vy)
LMS: 5000 (0 %SE)	ASIC: 4861,4862

**4251-G CABIN CLEANER  
Cabin Attendant**

Services aircraft interior to ensure suitability for inflight usage.

Attends to neatness and cleanliness of aircraft passenger cabin and service areas. Replaces soiled linen, blankets, pillows, cleans and services toilets and washroom area, vacuums carpets, washes kitchen area and replaces cutlery and crockery, checks first aid equipment, attends to items specified by cabin crew for attention and within his/her area of responsibility. Adjusts configuration of aircraft by altering seats to conform to seating ratios determined by Reservation Control for the flight.

May assist with loading of food for inflight meals.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T1m
HC: RC	RQ:
<i>Materials</i>	
SM: T1	EQ: N1 M2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H2 W1 E3	SA: S1
<i>Context</i>	
EC: L1	TC: A1 I1 R2
SS: 1	SC: 3 (vy)
LMS: 3000 (0 %SE)	ASIC: 540

**4251-H DOMESTIC CLEANER  
Domestic; Household Cleaner**

Cleans private home, performing any combination of the following duties.

Sweeps and washes hard surfaced floors and vacuums carpeted areas, drapes and upholstered furnishings. Dusts, cleans and polishes furniture, fixtures, glass and mirrors. Washes dishes, kitchen utensils and equipment. Cleans stove and oven, if required. Cleans and disinfects bathroom fixtures. Makes beds, changing linen if required.

May wash garments and linen and hang to dry or load dryer. May iron and fold clean cloths. May load and unload dishwasher. May clean venetian blinds.

Job Content Factors

Workers	
FP: GE NFR	IP:
HC: RS	RQ:
Materials	
SM: T1	EQ: N1 M2
Functions	
MA: D3 R4 L3	
PA: U1 C2 H2 S2 W1 E3	SA: A1

Context	
EC: L1	TC: A1 I2
SS: V	SC: V

LMS: 20000 (0 %SE)	ASIC: 9364,940
<b>4251-Z CLEANING OCCUPATIONS nec</b>	
This residual group covers cleaning occupations not elsewhere classified; such as the cleaning of streets using broom and hand trolley; and the cleaning of soot from chimneys and fireplaces, e.g.	
Chimney Sweep	Sanitary Cleaner
Street Sweeper	

4252 DRY-CLEANING OCCUPATIONS

This unit group covers occupations concerned with dry-cleaning garments, curtains and leather, suede and fur articles.

**Entry Requirements** no formal entry requirements except in Victoria where trade qualification is necessary.

**Activities include** identifying the fabric to be cleaned; use of the appropriate cleaning fluids; processing through the cleaning machine operation; checking for thoroughness; cleaning and preparation of the machine for future use.

4252-A DRY-CLEANER

Operates dry cleaning machine or hand cleans garments and other articles.

Separates stained and delicate articles requiring hand cleaning and sorts remaining articles into lots according to fabric, colour and capacity of dry cleaning machine. Immerses articles requiring hand cleaning in cleaning solvent. Treats stains with cleaning agent, patting with brush, sponge or bone spatula until stain is removed. Loads articles into drum of machine and inserts prepunched automatic cycle card with appropriate program. Removes cleaned articles from machine. Presses button to operate filter cleaning mechanism of dry cleaning machine. Cleans out sludge chamber of distillation unit.

May hang rugs to air after removal from dry cleaning machine. May immerse garments to be made water repellent in vat of waterproofing solution. May finish articles by the operation of steam pressing machine, puff iron, hand iron, steam tunnel unit or steam finishing body form. May assemble orders, collect payment, receive and dispatch goods over the counter. May check items at various stages of dry cleaning

and/or finishing to ensure that they meet required standards. May specialise in hand cleaning of stains and be designated accordingly. May specialise in a particular type of article or fabric and be designated accordingly, e.g.

Cleaner, Curtains  
Cleaner, Fur, Leather and Suede  
Spotter, Dry-Cleaning

Job Content Factors	
Workers	
FP: GE NFR PSP or FP: GE10y PSP4y(T)	IP: T6m
HC: RCS	IP:
	RQ:
Materials	
SM: D2 P2 T1	EQ: N1 M1
Functions	
MA: D2 R3 M3 L2	
PA: U1 H1 S2 W1 E3	SA: A2 S1 B2 R4
Context	
EC: L1 C01,02,08	TC: A1 R2
SS: 2	SC: 4 (vy)
LMS: 500-1000 (0 %SE)	ASIC: 9340

4253 DRY-CLEANING APPRENTICE OCCUPATIONS

This unit group covers occupations concerned with learning the dry-cleaning trade.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

**4253-A APPRENTICE DRY-CLEANER**

Receives instruction and training in the dry-cleaning trade.

Performs duties as described under Master Title APPRENTICE or a progressive basis according to a training schedule.

**Job Content Factors**

**Workers**

FP: GE10y  
HC: RCS

IP:  
RQ:

**Materials**

SM: D2 P2 T1

EQ: N1 M1

**Functions**

MA: D2 R3 M3 L2

PA: U1 H1 S2 W1 E3

SA: A2 S1

**Context**

EC: L1 C01,02,08

SS: 1

TC: A1 R2

SC: 2 (3 y)

LMS: ? (0 %SE)

ASIC: 9340

**4254 WASHING AND DRYING MACHINE OCCUPATIONS**

This unit group covers occupations concerned with operating machines which wash, extract water from, and dry garments and domestic or commercial linen.

**Entry Requirements** no formal requirements.

**Activities include** loading, starting and observing machines in operation, unloading and passing washing to next stage of process and measuring and filling machines with requisite chemicals and water.

**4254-A WASHMAN/WOMAN  
Laundryman/woman**

Operates machines that wash, extract water from and dry articles in laundry establishment.

Loads machines with articles requiring identical treatment, ensuring even load if necessary. Loads detergents or other cleansers into machine if appropriate. Closes machine, if necessary, operating sealing device. Sets machine dials or inserts pre-programmed computer card into machine to control duration of cycle and temperature according to type of articles. Monitors progress of cycle, performance of machine and any indicator lights. Switches off manual machines on completion of cycle. Opens door and unloads articles into portable basket and conveys to next stage in laundry process.

May operate hoist to lift articles into and out of machines. May finish and package articles or specialise in the operation of a particular machine and be designated accordingly, e.g.

Laundryer  
Washing Machine Operator  
Extractor Operator (Washing)  
Tumbler Operator

**Job Content Factors**

**Workers**

FP: GE NFR  
HC: RC

IP: T1-2m  
RQ:

**Materials**

SM: T1

EQ: N2 M1

**Functions**

MA: D3 R4 L3

PA: U1 H1 W1 E3

SA: A1 S2

**Context**

EC: L1 C08

SS: 2

TC: A1 R2

SC: 2 (vy)

LMS: 1000-2000(0 %SE)

ASIC: 9340

**4255 PRESSING OCCUPATIONS**

This unit group covers occupations concerned with pressing and ironing cleaned articles by machine or by hand.

**Entry Requirements** no formal requirements.

**Activities include** operating steam pressing machines, the occasional use of hand irons, checking finished jobs to ensure perfection and routine care of the press.

**4255-A PRESSER, LAUNDRY  
Finisher, Laundry**

Removes wrinkles and creases from cleaned garments by performing any combination of the following duties.

Presses flat, parts of garments using hand or foot operated steam pressing machine. Presses garments on form finishing machine or in steam tunnel by pressing buttons or turning dials. Presses sleeves, pleats, shoulders, flounces and other difficult pieces, using puff iron or hand iron. Checks garment and reprocesses garments requiring additional finishing. Checks the condition and operation of the press.

May press velvets and brush them to raise nap. May specialise in operating a particular type of press or finishing a particular type of garment and be designated accordingly, e.g.

**Shirt Presser**
**Steam Tunnel Operator**
**Job Content Factors**
**Workers**
**FP:** GE NFR

**IP:** T1-2m

**HC:** RC

**RQ:**
**Materials**
**SM:** T1

**EQ:** N1 M1

**Functions**
**MA:** D3 R4 L3

**PA:** U1 H2 S2 W1 E2

**SA:** A1 S2

**Context**
**EC:** L1 C01

**SS:** 2

**TC:** A1 R2

**SC:** 2 (vy)

**LMS:** 1000-2000(0 %SE)

**ASIC:** 9340

**4259 OTHER CLEANING, LAUNDERING AND RELATED OCCUPATIONS**

This residual unit group covers laundering, and related occupations concerned with activities such as mending articles prior to or after cleaning, and attending laundromats.

**Activities include** attending to the supply of articles for various machine operators, transfer of articles into, about and from the laundry and assistance where required in the laundry.

**4259-A LAUNDRY MACHINE ATTENDANT**

Tends or feeds machines that mark, iron, fold, stack, tie, package, roll or unroll flatwork or garments in laundry establishment, by performing any combination of the following duties.

Places articles in position by clamping onto machine or feeds articles into machine. Starts and stops machine as required by pushing buttons and operating other controls such as clutch bar if necessary. Smooths articles and guides them through machine, checking for stains and holes. Stops machine if article tangles and removes article. Manually folds or rolls processed articles, checks articles and reprocesses if necessary.

May tie and package articles by hand and stack on shelf or place into basket. May sort or count articles or prepare orders for dispatch. May specialise in tending or feeding a particular machine and be designated, e.g.

Continuous Towel Rolling-Machine Attendant

Folding Machine Tender

**Job Content Factors**
**Workers**
**FP:** GE NFR

**IP:** T1w

**HC:** RC

**RQ:**
**Materials**
**SM:** T1

**EQ:** M1

**Functions**
**MA:** D3 R4 L3

**PA:** U1 C2 H2 S2 W1 E2

**SA:** A1 S2

**Context**
**EC:** L1 C09

**SS:** 2

**TC:** A1 R1

**SC:** 2 (vy)

**LMS:** 1000-2000(0 %SE)

**ASIC:** 9340

**4259-B LAUNDRY ASSISTANT**

Assists in laundry establishment by performing any combination of the following duties.

Sorts articles received for cleaning according to type of article, colour, type of material and treatment required. Checks articles for holes, stains and tears. Places sorted articles into appropriate receptacles or onto conveyor belts for routing to repair or cleaning areas. Loads and unloads washing machines, dryers and extractors, manually or using hoist. Shakes out, smooths, folds, counts and stacks cleaned articles. Checks articles for stains, missing buttons, tears and improperly finished articles and returns faulty articles to laundry or repair unit. Matches invoice descriptions with tags on articles. Assembles articles to complete order. Packages articles by hand or machine. Staples invoice to assembled order. Places articles on shelf or hangs garments on rack, ready for delivery or collection.

May assist customer with machine, laundering supplies and change, at laundromat (laundrobar). May be designated according to task performed, e.g.

Assembler (Laundry)

Laundromat Attendant

Sorter (Laundry)

**Job Content Factors**
**Workers**
**FP:** GE NFR

**IP:** T1w

**HC:** RC

**RQ:**
**Materials**
**SM:** P2 T1

**EQ:** N2 M2 W2

**Functions**
**MA:** D3 R4 M3 L3

**PA:** U1 H1 W1 E2

**SA:** S1

**Context**
**EC:** L1 C08,09

**SS:** 2

**TC:** A1 S2 I2 R1

**SC:** 3 (vy)

**LMS:** 2000-3000(0 %SE)

**ASIC:** 9340

**MINOR GROUP 426**  
**HAIRDRESSERS, BEAUTICIANS AND RELATED OCCUPATIONS**

Hairdressers, Beauticians and Related Occupations are classified in the following unit groups.

- 4260 Supervisors, Hairdressers, Beauticians and Related Occupations
- 4261 Hairdressing Occupations
- 4262 Apprentice Hairdressing Occupations
- 4263 Beauticians and Related Occupations
- 4264 Massage Occupations
- 4269 Other Hairdressers, Beauticians and Related Occupations

**4260 SUPERVISORS, HAIRDRESSERS, BEAUTICIANS AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with the supervision of hairdressers, beauticians, massage and related occupations.

**Entry Requirements** a trade qualification and/or work experience.

**Activities include** planning, organising, directing and controlling the operation of hairdressing, beauty or related establishments.

**4260-A MANAGING SUPERVISOR,  
HAIRDRESSING ESTABLISHMENT**

Operates hairdressing establishment on own or owner's behalf, or in partnership.

Plans, organises, directs and controls the operation of hairdressing establishment, and supervises and co-ordinates activities of other staff. Performs duties as described under Master Title MANAGING SUPERVISOR. Performs duties of 4261-A, HAIRDRESSER, LADIES' and 4261-B HAIRDRESSER, GENTLEMEN'S.

Plans, organises, directs and controls the operation of beauty establishment and supervises and co-ordinates activities of employees, performing duties as described under Master Title MANAGING SUPERVISOR. Performs duties of employees supervised, as required.

*Job Content Factors*

*Workers*

FP: GE10-12y PSP(V) IP: T(v) E(v)  
HC: ESR RQ: S1

*Materials*

SM: D2 P1 T2 EQ: S1 N1

*Functions*

MA: D2 R3 M3 L2 SA: A2 S1 I1 B1 R3-4  
PA: U1 C2 S2 W2 E2

*Context*

EC: L1 TC: A1  
SS: 3 SC: 5 (vy)

LMS: 50-100 (0 %SE) ASIC: 9352

**4260-C MANAGING SUPERVISOR, MASSAGE  
ESTABLISHMENT**

Operates massage establishment on own or owner's behalf, or in partnership.

Plans, organises, directs and controls the operation of massage establishment and supervises and co-ordinates activities of other employees, performing duties as described under Master Title MANAGING SUPERVISOR. Performs duties of employees supervised as described under 4264-A MASSEUR/MASSEUSE.

*Job Content Factors*

*Workers*

FP: GE10y PSP4y(T) IP: E5y  
HC: ESR RQ: S1

*Materials*

SM: D2 P2 T2 EQ: N2 M2

*Functions*

MA: P1 D2 R3 M3 L2 SA: S1 L2 I1 B1 R4-3  
PA: U1 S2 W2 E2

*Context*

EC: L1 TC: A1  
SS: 3 SC: 4 ( 2y)

LMS: 2150 (0 %SE) ASIC: 935

**4260-B MANAGING SUPERVISOR, BEAUTY  
ESTABLISHMENT**

Operates beauty establishment on own or owner's behalf or in partnership.

Job Content Factors

Workers	
FP: GE10-12y PSP3m(B)	IP:
HC: ESC	RQ:
Materials	
SM: D2 P1	EQ:

Functions

MA: P1 D2 R2 M3 L2	SA: S1 I1 B1 R3-4
PA: S1 W2 E2	
Context	
EC: L1	TC: A1 I2
SS: V	SC: V
LMS: 1000-2000(0 %SE)	ASIC: 9364,9144

4261 HAIRDRESSING OCCUPATIONS

This unit group covers occupations concerned with cutting, shampooing, colouring and styling hair, trimming, shaping and shaving beards and moustaches; caring for hair and scalp; and analysing and treating specific hair and scalp problems.

**Entry Requirements** a trade qualification.

**Activities include** cutting, shampooing, colouring, styling, shaving, attention to hair and scalp problems and promotion of artificial hair aids.

4261-A HAIRDRESSER, LADIES' Hair Stylist, Ladies'

Provides services related to the styling of ladies' hair and the treatment of hair and scalp.

Suggests hair style compatible with physical features of customer and current fashions, or determines style from instructions of customer. Shampoos and rinses hair. Cuts, trims, tapers and shapes hair, using scissors or razor. Massages scalp and gives other hair and scalp conditioning treatments. Styles hair using brush, comb, rollers, clips, bobby pins, curling iron, crimping iron and blowdryer. Waves hair using permanent wave and similar solutions, curlers, rods and other equipment. Applies bleach, tint, dye or rinses to colour, frost or streak hair. Straightens hair using chemical solution. Advises customer on beauty care treatments for scalp and hair. Takes personal or telephone bookings and collects payments.

May sell hair care products in hairdressing salon. Cleans work area and instruments as required. May block, clean, colour, adjust, curl and cut wigs and hair pieces. May perform manicures and facials and tint eyelashes and eyebrows. May plait or wave hair. May direct other workers. May perform some or all the duties of 4261-B HAIRDRESSER, GENTLEMEN'S after undergoing appropriate transitional training in accordance with licensing requirements; and be designated, e.g.

Hairdresser, Combined (Ladies')

Job Content Factors

Workers	
FP: GE9-10y PSP4y(T)	IP:
HC: RSE	RQ: S1 U1 D2
Materials	
SM: I2 P1 T2	EQ: S1 N1
Functions	
MA: D2 R3 L2	SA: S1 I1 B2 R4
PA: U1 C1 S2 W1 E2	
Context	
EC: L1	TC: A1
SS: 2	SC: 4 ( 5y)
LMS: 23000 (0 %SE)	ASIC: 9352

trimming and shaving of beards, and the treatment of hair and scalp.

Cuts and trims hair according to customer preference or particular style, using electric clippers, scissors, razors, combs and brushes. Shaves customer and trims and shapes beard and moustache. Shampoos hair and gives other hair treatments such as waving, straightening, tinting and applying hair dressings. Dries hair using hair blower. Styles hair using hair blower and brush. Advises customers on hair problems and recommends hair pieces, wigs, grooming products and processes. Styles and fits wigs and hair pieces if required. Takes personal or telephone bookings and collects payments.

May give facial and scalp conditioning massages. May perform some or all the duties of 4261-A HAIRDRESSER, LADIES' after undergoing appropriate transitional training in accordance with licensing requirements, and be designated, e.g.

Hairdresser, Combined (Gentlemen's)

Job Content Factors

Workers	
FP: GE10y PSP4y(T)	IP:
HC: RSE	RQ: S1 U1 D2
Materials	
SM: I2 P1 T2	EQ: S1 N1
Functions	
MA: D2 R3 L2	SA: S1 I1 B2 R4
PA: U1 S2 W1 E2	
Context	
EC: L1	TC: A1
SS: 2	SC: 4 ( 5y)
LMS: 16000 (0 %SE)	ASIC: 9351

4261-C HAIRDRESSER, UNISEX

Provides services related to the styling of ladies' and gentlemen's hair, and treatment of hair and scalp and be designated accordingly, e.g.

Trichologist

Job Content Factors

Workers	
FP: GE10y PSP4-5y(T)	IP: E1-2y
HC: RSE	RQ: S1 U1 D2
Materials	
SM: I2 P1 T2	EQ: S1 N1

4261-B HAIRDRESSER, GENTLEMEN'S Barber; Hair Stylist, Gentlemen's

Provides services related to the styling of gentlemen's hair,

<i>Functions</i>		<i>Context</i>	
MA: D2 R3 L2		EC: L1	TC: A1
PA: U1 C1 S2 W1 E2		SS: 2	SC: 4 ( 5y)
SA: S1 I1 B2 R4		LMS: ? (0 %SE)	ASIC: 935

4262 APPRENTICE HAIRDRESSING OCCUPATIONS

This unit group covers apprentice occupations in hairdressing.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10 and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

4262-A APPRENTICE HAIRDRESSER, LADIES'

Receives instruction and training in the trade of hairdressing.  
Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP:
HC: RSE	RQ: D2
<i>Materials</i>	
SM: P2 T2	EQ: S1 N1
<i>Functions</i>	
MA: D2 R3 L2	
PA: U1 C1 S2 W1 E2	
SA: S1 I1	
<i>Context</i>	
EC: L1	TC: A1
SS: 1	SC: 2 ( 4y)
LMS: 12000 (0 %SE)	ASIC: 9352

4262-B APPRENTICE HAIRDRESSER, GENTLEMEN'S

Receives instruction and training in the trade of hairdressing.  
Performs duties as described under Master Title APPRENTICE on a progressive basis according to a training schedule.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP:
HC: RSE	RQ: D2
<i>Materials</i>	
SM: P2 T2	EQ: S1 N1
<i>Functions</i>	
MA: D2 R3 L2	
PA: U1 S2 W1 E2	
SA: S1 I1	
<i>Context</i>	
EC: L1	TC: A1
SS: 1	SC: 2 ( 4y)
LMS: 8000 (0 %SE)	ASIC: 9351

4263 BEAUTICIANS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with the provision of facial and body care treatments to improve the condition of the skin and enhance the individual's appearance.

**Entry Requirements** satisfactory completion of an appropriate training course. In some States the possession of a hairdressing trade qualification is required.

**Activities include** applying beauty preparations to the body to improve the skin, or eliminating skin blemishes, recommending of cosmetics and their application, removing unwanted hair by electronic means; may oversee the running of an establishment.

4263-A BEAUTICIAN

Aesthetician (Esthetician); Beauty Therapist

Provides facial and body care treatment in beauty establishment.

Examines client's skin and interviews client to determine type of treatment and product to be used. Records diagnosis and treatment on client's record card. Cleans client's face with water or appropriate creams and lotions. Steams and softens skin, using electric vapouriser containing water and appropriate oils. Treats oily or acne-prone skin using electrical equipment or ultra-violet lamp. Applies appropriate facial



Job Content Factors

Workers	
FP: GE NFR PSP3m(B)	IP:
HC: RSE	RQ:
Materials	
SM: P1	EQ: N1

Functions

MA: D3 R4 L3	
PA: U1 H1 S2 W1 E3	SA: S1 I1
Context	
EC: L1	TC: A1
SS: V	SC: V
LMS: 1000-2000(0 %SE)	
ASIC: 9364,9144	

4269 OTHER HAIRDRESSERS, BEAUTICIANS AND RELATED OCCUPATIONS

This residual unit group covers occupations concerned with providing beauty or hairdressing services.

**Activities include** manicuring and finger nail adornment, and providing assistance to beauticians and related beauty care personnel.

4269-A BEAUTY CLINIC ASSISTANT

Assists aesthetician in providing facial and body care treatment in beauty establishment.

Seats client. Under supervision of aesthetician, cleans client's face with water, cream or lotions, gives manicures of hands and feet, and removes unwanted hair using depilatory wax or cream. Ensures workers are supplied with creams, lotions, tissues, towels and appropriate equipment. Washes and disinfects equipment and utensils and sweeps and tidies work areas.

May collect and record payments from customer and book appointments.

Job Content Factors

Workers	
FP: GE NFR	IP: T1m
HC: ASE	RQ: D2 V1

Materials

SM: P1 T2	
EQ: S2 N1	
Functions	
MA: D3 R4 L3	
PA: U1 C2 S2 W2 E2	SA: S1 I1
Context	
EC: L1	TC: A1
SS: 2	SC: 2 ( 4y)
LMS: 2000 (0 %SE)	
ASIC: 9352	

4269-Z HAIRDRESSERS, BEAUTICIANS AND RELATED OCCUPATIONS nec

This residual group covers occupations not elsewhere classified concerned with providing beauty or hairdressing services, e.g. piercing ears and insertion of earrings, and the use of creams or waxes to remove unwanted body hair,  
Ear Piercer  
Depilatory Hair Remover

## MINOR GROUP 429 OTHER SERVICE OCCUPATIONS

Other Service Occupations are classified in the following unit groups.

- 4290 Funeral Service Occupations
- 4291 Child Care and Related Occupations
- 4292 Guide Occupations
- 4293 Front-of-House Entertainment and Related Occupations
- 4294 Flight Attendants and Related Occupations
- 4295 Marine/Rail Porters and Steward/Stewardess Occupations
- 4296 Collectors
- 4297 Musical Instrument Repairing Occupations
- 4299 Other Service Occupations

### 4290 FUNERAL SERVICE OCCUPATIONS

This unit group covers occupations concerned with arranging and conducting funerals, preparing funeral parlours for services and viewings, and assisting at funerals.

**Entry Requirements** in some cases, Year 10 and additional study for embalming work.

**Activities include** collecting and arranging disposal of bodies by burial or cremation, preparing the body, and viewing and funeral service arrangements.

#### 4290-A FUNERAL DIRECTOR Funeral Arranger; Mortician; Undertaker

Arranges and conducts funerals.

Co-ordinates activities of workers engaged in moving bodies to mortuary. Ensures death certificate is issued, procures burial or cremation certificate; registers death and sees that all other legal requirements are met. Interviews family or other authorised persons to arrange funeral service of deceased. Helps family to select coffin, burial clothes and burial plot and arranges for publication of death notices. Discusses cost of funeral and terms of payment. Advises on assistance available through repatriation and social welfare agencies. Liaises with clergy, cemetery or crematorium officers to conduct funeral services. Arranges coffin in chapel in which services are to be held and adjusts lights and floral displays. Directs staff in placing coffin in hearse and at crematorium or burial site. Organises transportation of body in hearse and of relatives by car to and from cemetery or crematorium. Supervises collection of all attendance and floral tribute cards.

May organise interstate or overseas funerals. May arrange for embalming of corpse, attendance of pallbearers, establishment of memorial or placement of ashes. May be competent to embalm. May pre-arrange funerals with clients. May specialise solely in arranging funeral from office premises and be designated accordingly.

#### *Job Content Factors*

##### *Workers*

FP: GE10y	IP: T1y
HC: SEC	RQ:

##### *Materials*

SM: D2 P1	EQ: N1
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##### *Functions*

MA: P1 D2 R2 M3 L2	SA: S1 L2 I1 B1 R3-4
PA: U1 H2 S1 W2 E3	

##### *Context*

EC: L1	TC: A1 I2
SS: 5	SC: 7 (vy)

LMS: 7500 (0 %SE)

ASIC: 9362

#### 4290-B EMBALMER

Prepares body for viewing at funeral parlour.

Washes body with germicidal soap. Inserts convex celluloid or cotton between eyeball and eyelid to prevent slipping and sinking of eyelid. Sews lips shut and packs orifice with cotton to prevent leakage. Inserts pump tubes into arteries and starts pump to drain blood from body and to replace with embalming fluid. Punctures internal organs through abdomen to remove natural fluids, gases and waste matter. Affixes moulded wax, cotton, foam rubber or other material to injured portions of the body to help restore normal appearance. Closes incisions using needle and thread. Dresses body and applies cosmetics to impart life-like appearance. Places body in coffin.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP	IP: T2y
or FP: GE10y PSP2-3y(PPC)	IP:
HC: SEC	RQ: D2
<b>Materials</b>	
SM: D2 T1	EQ: S1 N1
<b>Functions</b>	
MA: P1 D2 R3 L3	
PA: P1 U2 S1 W2 E3	SA: A1
<b>Context</b>	
EC: L1 C02,06,08	TC: A1
SS: V	SC: V
LMS: 50 (0 %SE)	ASIC: 9362

#### 4290-C CREMATORIUM OPERATOR

**Cremator**

Tends retort furnaces that cremate human bodies and supervises activities of crematorium assistants.

Operates crematorium in compliance with official regulations and administrative instructions ensuring safety of all crematorium personnel. Opens fuel and air valves and pushes starter switch to activate furnace. Co-ordinates functions of crematorium through liaison with clergy and funeral directors' assistants. Supervises activities of crematorium assistants in removal from coffin of metal fixtures such as name plates and handles. Ensures correct name plate is placed alongside retort furnace into which coffin containing body is pushed. Adjusts fuel and air valves to maintain proper temperature during cremation. Shuts off furnace at completion of operation. Writes name of cremated person and time of cremation into official record book. Monitors removal of ashes from floor of furnace by crematorium assistants. Crushes any remaining bone fragments with electrical or mechanical crusher. Places ashes in labelled container for disposal as directed.

May scatter or inter ashes as requested by next of kin. May place monument or memorial plaque over remains.

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T6w
HC: RS	RQ:
<b>Materials</b>	
SM: D2 P1 T2	EQ: S1 N1
<b>Functions</b>	
MA: P2 D2 R3 M3 L2	
PA: U1 H1 S2 W1 E3	SA: A2 S1 B2 R4
<b>Context</b>	
EC: L1 C02,04	TC: A1 R2
SS: 2	SC: 2 (vy)
LMS: 50-100 (0 %SE)	ASIC: 9363

#### 4290-D FUNERAL DIRECTOR'S ASSISTANT

**Funeral Attendant; Funeral Worker; Undertaker's Assistant**

Prepares funeral parlour for services and viewing and assists at funerals.

Drives hearse containing empty coffin to morgue or place of death. Places body in coffin and returns to funeral parlour. Removes coffin from hearse, places on trolley and pushes to

storage or embalming area. Places coffin in parlour or chapel prior to funeral service, using trolley, arranges floral displays and adjusts lights around coffin. Escorts mourners and guests to parlour or chapel. Assists in closing coffin. Carries flowers to funeral vehicles and drives hearse or funeral car to cemetery. Assists with carrying coffin to graveside or crematorium. Issues equipment such as coffin lowering devices and grass mats used at interment and replaces them in hearse after use. Distributes and collects funeral attendance cards. Collects and returns all floral tribute cards.

May act as pallbearer if requested. May vacuum and sweep funeral parlour and chapel. May clean hearse and funeral car.

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T3m
HC: SEC	RQ: L1 D2
<b>Materials</b>	
SM: D2 P1	EQ: N1 V1
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 C1 H1 S2 W2 E3	SA: S1 L2 I1
<b>Context</b>	
EC: L4	TC: A1
SS: 2	SC: 3 (vy)
LMS: 7500 (0 %SE)	ASIC: 9362

#### 4290-E CREMATORIUM ASSISTANT

Assists crematorium operator with the cremation of human bodies.

Assists coffin bearers to place coffin on chapel catafalque prior to service and ensures that coffin is correctly positioned to permit free movement along conveyor. Positions rolled trolley at end of conveyor system carrying coffin from chapel. Guides coffin from conveyor onto trolley. Uses pinch bar and screw driver to prise off and unscrew metal fittings, retaining metal nameplate. Pushes trolley bearing coffin to furnace and open furnace doors. Adjusts height of trolley as required and pushes coffin into furnace. Determines when cremation process is complete by looking through aperture in furnace. Under supervision of crematorium operator removes ashes from floor of furnace. Uses magnet to separate coffin nails and other ferrous material from ashes. Scrapes interior of furnace using long handled scraper and cleans crematorium premises and other fittings as directed.

May perform routine maintenance in cemetery grounds. May assist with interment of ashes and placement of memorial plaque.

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T2w
HC: RS	RQ:
<b>Materials</b>	
SM: P2 T1	EQ: S1 N1
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 H1 S2 W1 E3	SA: A2 S1
<b>Context</b>	
EC: L1 C01,02,04	TC: A1 R2
SS: 2	SC: 2 (vy)
LMS: 100-200 (0 %SE)	ASIC: 9363

### 4291 CHILD CARE AND RELATED OCCUPATIONS

This unit group covers occupations concerned with supervising and caring for children and providing activities which enhance their emotional, social, physical and intellectual development.

**Entry Requirements** up to Year 10 plus, in some cases, a short period of work experience.

**Activities include** engaging in basic cleanliness and recreational activities for young children, organisation of education needs and daily discipline for older children, teaching basic needs and entertaining pre-school children and providing parental care in live-in situations.

*Related Occupations*

Unit Group 2414

: Enrolled Nurses

**4291-A PRE-SCHOOL AIDE,  
NON-CERTIFICATED  
Pre-Primary School Aide**

Under direction of teacher, provides care and supervision for children at pre-school or pre-primary centre.

Participates in discussions with teacher regarding individual and group programs and assists in the implementation of these programs. Encourages children to mix with each other and to participate in games. Supervises and participates in activities which enhance the physical, social, emotional and intellectual development of the children and prepare them for more formal education. Cleans children's hands and faces, when dirty, and ensures all children wash their hands after play and prior to eating. Prepares and serves children's snacks and washes up. Prepares materials such as paint, clay, paper, pencils and lays out equipment such as skipping ropes and blocks, ready for use by children. Cleans and sweeps centre, packs away equipment and performs other housekeeping tasks.

*Job Content Factors*

*Workers*

FP: GE NFR IP: T1-6y  
HC: SRE RQ:

*Materials*

SM: P1 T2 EQ: N1

*Functions*

MA: D3 R4 L3  
PA: U1 S2 W2 E2 SA: S1 L2 I1

*Context*

EC: L1 TC: A1  
SS: 2 SC: 2 (vy)

LMS: 3000-4000(0 %SE)

ASIC: 8231,8305

**4291-B TEACHER'S AIDE**

Assists teaching staff in the preparation of teaching resources and with general classroom non-teaching duties.

Helps with the preparation of teaching aids, preparing stencils and duplicating and collating copies; distributing and collecting lesson material, maintaining a record of books and materials distributed by the teacher to the pupils; collecting money from pupils for school functions and excursions; assisting with the maintenance of attendance rolls, marking books, charts and assessment records; assisting the teacher in attending to sick pupils and those in need of minor first aid; assisting in supervising pupils on sports days and excursions; maintaining the classroom in a tidy condition; assisting in other activities as directed by the teacher.

May assist in teaching duties. May specialise and be designated accordingly, e.g.

Migrant Aide

*Job Content Factors*

*Workers*

FP: GE10-12y IP: T1-3m E2m  
HC: CES RQ: P2

*Materials*

SM: D1 P2 T2 EQ: M1 K2

*Functions*

MA: P2 D2 R3 L2  
PA: U2 H1 S2 W2 E1 SA: S2 L2 I1

*Context*

EC: L1 TC: A1 I1 T2  
SS: 2 SC: 4 (3 y)

LMS: NA (0 %SE)

ASIC: 823

**4291-C CHILD CARE GROUP WORKER**

As a member of team, provides care and supervision for children in minimum, medium or open security government institution.

Under direction of professional staff, implements program of supervision, care and activities, to enhance the physical, emotional, social and intellectual development of the children and to correct or improve behavioural problems. Wakes children and ensures that they are dressed, fed and ready for school. Organises and participates in recreational and educational activities. Ensures school homework carried out and assists when necessary. Supervises children during meal times, shower times, activities and recreational periods, and ensures lights turned out at designated time. Observes children, assesses their behaviour, compiles reports and forwards reports to supervisor. Reports disciplinary problems to supervisor and assists in or carries out disciplinary action or remedial measures. At maximum security establishment, patrols centre, unlocking and locking doors before and after passage.

May assist with the serving of meals.

*Job Content Factors*

*Workers*

FP: GE10y PSP1y(B) IP:  
HC: SR RQ:

*Materials*

SM: P1 T2 EQ: N1

*Functions*

MA: D2 R3 L2  
PA: U1 S2 W2 E2 SA: S1 L2

*Context*

EC: L1 TC: A1  
SS: 2 SC: 2 (vy)

LMS: 3000-4000(0 %SE)

ASIC: 8231,8305

**4291-D CRECHE ATTENDANT**  
**Child Care Aide (Non-Certificated);**  
**Child Care Worker (Non-Certificated);**  
**Child Minding Assistant (Non-Certificated);**  
**Child Care Attendant (Non-Certificated);**  
**Child Care Assistant (Non-Certificated)**

Assists more highly qualified staff to provide care for growing children and babies at non-residential child care centres, performing any combination of the following duties.

Works under direction of more highly qualified staff members. Prepares materials such as paint, clay, glue, paper, pencils and lays out equipment such as skipping ropes, blocks and toys; ready for use by children. Encourages children to mix with each other and to participate in games. Demonstrates and participates in activities which enhance the physical, social, emotional and intellectual development of the children. Tells stories, reads and sings to children. Changes nappies, baths and dresses babies and toilet trains infants. Washes hands and faces of children after play and before meals. Prepares and serves meals and snacks and cleans food preparation area and

dishes as required. Assists in preparation of bottles of milk formulae. Cleans and sweeps centre, packs away toys and equipment and performs other housekeeping tasks.

#### Job Content Factors

<b>Workers</b>	
FP: GE NFR	IP: T1-6m
HC: SR	RQ:
<b>Materials</b>	
SM: P1 T2	EQ: N1
<b>Functions</b>	
MA: D2 R3 L2	
PA: U1 S2 W2 E3	SA: S1 L2 I1
<b>Context</b>	
EC: L4	TC: A1
SS: 2	SC: 3 (vy)
LMS: 3000-4000(0 %SE)	ASIC: 8231,8304,8305

#### 4291-E HOSTEL PARENT Cottage Parent; Manager/Manageress, Children's Home

Operates private or government residential child care centre and provides care, supervision and a home-like atmosphere for children.

Implements daily program of supervision, care and activities for children. Awakens children each morning and ensures that they are dressed, fed and ready for school or other activity. Organises and participates in recreational activities and accompanies children on outings. Ensures school homework carried out and assists when necessary. Tries to teach correct social behaviour, instructs children in good health and personal habits, and disciplines children, if necessary. Orders supplies and keeps accounts, cleans premises, cooks and serves

meals and washes and irons clothes and linen and performs other household tasks; or employs staff to perform some or all of these duties.

May perform above duties in own home, or home provided by government or welfare organisation; or at boarding school and be responsible to the school head; and be designated accordingly, e.g.

Group Home Parent      Housemother/father

#### Job Content Factors

<b>Workers</b>	
FP: GE10y	IP: E1-5y
HC: SR	RQ:
<b>Materials</b>	
SM: D2 P1	EQ: N1
<b>Functions</b>	
MA: P1 D2 R3 M3 L2	
PA: U1 S2 W2 E3	SA: S1 L2 I1
<b>Context</b>	
EC: L1	TC: A1 I1
SS: 2	SC: 3 (vy)
LMS: 1000-2000(0 %SE)	ASIC: 9233

#### 4291-Z CHILD CARE AND RELATED OCCUPATIONS *nee*

This residual group covers occupations concerned with providing care and supervision for children not elsewhere classified in Unit Group 4291, such as organising crafts, games, workshops and excursions, out of school hours, or assisting hostel parents to care for younger children, e.g.

Baby Sitter      Governess (Child Care)  
Play Leader  
Senior Assistant, Hostel

### 4292 GUIDE OCCUPATIONS

This unit group covers occupations concerned with escorting individuals and groups in sightseeing or educational visits, travel tours and excursions, and describing points of interest.

**Entry Requirements** no formal requirement but usually work experience in a related area is required.

**Activities include** planning or assisting with planning the tour or excursion, assembling participants, regulating the tour schedule, describing and explaining points of interest, concluding the tour and answering inquiries during or after the visit.

#### Related Occupations

Unit Group 2119 : Other Social Welfare Occupations

#### 4292-A TOURIST GUIDE

Transports or escorts tourists on tours within specific areas and describes points of interest.

Plans trip according to interests and requests of sightseers. Collects fees or tickets, if required. Drives sightseeing bus, car or boat, or accompanies sightseers in vehicle, boat or on foot. Provides commentary along route, pointing out interesting features, and describes details such as the history, development, geology and fauna and flora of the area. Uses public address system if necessary. Arranges entry to establishments such as art galleries, museums, government buildings and nature reserves.

#### Job Content Factors

<b>Workers</b>	
FP: GE NFR	IP: T1-2m E6m
HC: ESA	RQ: L2 S2 D2 V1
<b>Materials</b>	
SM: D2 P1 T1	EQ: N1 V1
<b>Functions</b>	
MA: P1 D3 R3 M3 L2	
PA: U1 C1 S2 W2 E2	SA: S2 L1 I1
<b>Context</b>	
EC: T2 L4	TC: A1 I1
SS: 3	SC: 3 (vy)
LMS: 250-500 (0 %SE)	ASIC: 5106,5514

**4292-B TOUR LEADER**

Escorts groups of tourists on journeys to ensure that prepared tour schedules are met and that transportation and accommodation are adequate.

Reviews itinerary and schedule of tour with travel agency. Meets tour group and accompanies members to hotel. Organises tour group to ensure that members are punctual for organised outings such as sightseeing tours and dinners. Advises of local points of interest. Rearranges bookings should any delays occur. Ensures group and baggage ready for departure. Reports complaints about itinerary, service or accommodation to travel agency.

**Job Content Factors****Workers**

FP: GE NFR IP: T1-2m Ely  
HC: SEA RQ: D1

**Materials**

SM: D1 P1 EQ:

**Functions**

MA: P1 D2 R3 M3 L2  
PA: S2 W2 E2 SA: A2 S2 L1 I1

**Context**

EC: L4 TC: A1 I1  
SS: 3 SC: 3 (vy)

LMS: 250-500 (0 %SE)

ASIC: 5106,5514

**4292-C GUIDE, ESTABLISHMENT**

Transports or escorts people through establishments, such as museums, industrial plants and public buildings, and describes

features of interest.

Operates vehicle or boat to transport patrons, or accompanies patrons on vehicle, boat or on foot, and explains points of interest such as size of establishment, historical data and operations and equipment peculiar to establishment. Uses public address system if required. Answers questions and supplies information or literature about exhibits or places visited. Ensures that visitors conform to regulations concerning safety and good conduct.

May operate slide or film projector. May perform reception duties or work at the information desk when not conducting tours. May prepare articles for publication. May give talks about the establishment to groups of people. May greet guests at social functions and answer queries at exhibitions. May be designated according to type of establishment, e.g.  
Museum Guide Underground Mine Guide

**Job Content Factors****Workers**

FP: GE10y IP: T2-3m Ely  
HC: ESC RQ: L2 S2 D1

**Materials**

SM: D2 P1 T1 EQ: S2 N1 M1 V2

**Functions**

MA: P2 D2 R3 L2  
PA: U1 C2 S2 W2 E2 SA: S2 L1 I1

**Context**

EC: L4 TC: A1 I1  
SS: 2 SC: 2 (vy)

LMS: 250-500 (0 %SE)

ASIC: Many

**4293 FRONT-OF-HOUSE ENTERTAINMENT AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with controlling admission to establishments, assisting patrons entering and leaving establishments, collecting tickets, and directing patrons to their seats.

**Entry Requirements** no formal requirements.

**Activities include** meeting customers, clients and patrons at the entrance to an establishment and assisting with their entry, checking or taking tickets, guiding them to their seat or area and maintaining order.

**4293-A DOOR ATTENDANT**  
**Doorman/woman**

Assists patrons leaving or entering premises of hotel, theatre, store or similar establishment, performing any combination of the following duties.

Opens doors, hails taxis, and assists people into vehicles. Carries patrons' luggage to and from lobby and vehicles. Directs patrons to parking areas and answers inquiries about hotel and other amenities. Prevents entrance of unauthorised or undesirable persons and reports suspicious behaviour to security personnel. Collects and checks tickets of cinema or theatre patrons and guides patrons to Ushers/Usherettes. Distributes passes to patrons leaving establishment temporarily. After show, checks through theatre, turns out lights and locks doors. Assists handicapped persons, if required.

May specialise in removing and preventing the entry of undesirables at hotels and be designated, e.g.

Bouncer

**Job Content Factors****Workers**

FP: GE NFR IP: T1-2w  
HC: SCE RQ: P1 Q2 D2

**Materials**

SM: P1 EQ: N1

**Functions**

MA: D3 R3 L3  
PA: U1 H2 W1 E3 SA: S2 L1 I1

**Context**

EC: L4 TC: A1 I1  
SS: 2 SC: 2 (vy)

LMS: 500-1000 (0 %SE)

ASIC: Many

**4293-B USHER/USHERETTE, ENTERTAINMENT**

Assists patrons in locating seats at entertainment and sporting events and performs other related duties.

Checks ticket stubs for code indicating location of reserved seats, and directs patrons to them, using torch if necessary. Advises patrons of location and availability of vacant unreserved seats. Answers queries, advising patrons of

availability of seats, starting time, length of performance and location of facilities such as telephones and rest rooms. Informs patrons found breaking cinema regulations of appropriate rules. Relays patrons' complaints to supervisor.

May distribute or sell programs. May assist patrons to search for lost articles.

#### *Job Content Factors*

##### *Workers*

FP: GE NFR IP: T1-2w  
HC: SCE RQ: D1 V1 A2

##### *Materials*

SM: D2 P1 EQ:

##### *Functions*

MA: D2 R3 L2  
PA: S2 W1 E1 SA: S2 L1 I1

##### *Context*

EC: L1 TC: A1 I1  
SS: 3 SC: 3 (vy)

LMS: 500-1000 (0 %SE) ASIC: 9133,9136

#### **4293-C ATTENDANT, SPORTING**

Controls entry to facilities such as sporting grounds, squash courts, skating rinks, and health studios, collects payment and provides supplies to patrons, performing any combination of the following duties.

Inspects membership cards, if required. Issues hire equipment, special clothing and supplies such as soap and towels, on request. Records list of equipment issued, if required. Answers telephone and records bookings for use of facilities.

May sell equipment and clothing. May assign locker space to patron and issue key. May maintain register of patrons. May record patron's progress. May sell refreshments from kiosk on premises. May be designated according to type of facilities attended, e.g.

Squash Court Attendant Tennis Court Attendant

#### *Job Content Factors*

##### *Workers*

FP: GE NFR IP: T1-2w  
HC: SEC RQ: D2

##### *Materials*

SM: D2 P1 T2 EQ: N1

##### *Functions*

MA: D2 R3 M3 L2  
PA: U1 H2 S2 W2 E2 SA: S2 L1 I1

##### *Context*

EC: L1 TC: A1 I1  
SS: 2 SC: 2 (vy)

LMS: 500-1000 (0 %SE) ASIC: 9144

#### **4293-D TICKET TAKER Gate Attendant (Entertainment); Turnstile Attendant**

Collects admission tickets or passes from patrons at entertainment and sporting events.

Checks tickets or passes to verify authenticity. Takes ticket from customer and returns stub. Refuses admission to those without ticket and to those believed to be under age or intoxicated, calls manager or doorman/woman if required. Directs patrons to appropriate areas. Distributes passes to patrons leaving establishment temporarily.

May unlock gates prior to admission and lock gates after event completed.

#### *Job Content Factors*

##### *Workers*

FP: GE NFR IP:  
HC: SR RQ: D2

##### *Materials*

SM: P1 EQ: N1

##### *Functions*

MA: D3 R4 L3  
PA: U1 S2 W2 E1 SA: S2 L1 I1

##### *Context*

EC: L4 TC: A1 I1  
SS: 2 SC: 2 (vy)

LMS: 500-1000 (0 %SE) ASIC: 91

### **4294 FLIGHT ATTENDANTS AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with providing services to, and ensuring the safety of, airline passengers aboard aircraft, across tarmac and in airline terminal.

**Entry Requirements** Year 10 and up to 5 years' experience in a related area.

**Activities include** checking preparedness of cabin, greeting passengers, checking ticket and allotting seat, provision of meals, safety instruction and application and tending other passenger requirements.

#### **4294-A FLIGHT SERVICE DIRECTOR Purser (Aircraft)**

Directs activities of aircraft cabin crew and ensures that services are provided for the comfort and safety of passengers whilst aboard aircraft.

Obtains copy of flight plan, passenger list and other materials from operations office prior to flight. Boards aircraft, checks cabin supplies and requisitions required items. Assigns duties to flight attendants, such as greeting passengers, explaining safety equipment, providing flight information and serving meals. Supervises cabin services and assists in distribution of meals and beverages. Informs passengers of Customs and

Immigration procedures. Requests individual passengers to comply with smoking and safety regulations. Remedies complaints of passengers and flight attendants. Gives reports from flight attendants and prepares records related to en route service.

#### *Job Content Factors*

##### *Workers*

FP: GE10y IP: T3m E5y  
HC: SC RQ: D1 V1 A1

##### *Materials*

SM: D2 P1 T2 EQ: N1

*Functions*

MA: P1 D2 R2 M3 L2

PA: U1 S2 W1 E2

SA: L1 I1 B1 R3-4

*Context*

EC: T2 M2 L1

TC: A1 I1

SS: 10

SC: 10 (vy)

LMS: 100 (0 %SE)

ASIC: 5403

**4294-B****FLIGHT ATTENDANT****Air Hostess/Flight Steward**

Attends to the comfort and safety of airline passengers whilst aboard aircraft.

Takes delivery of refreshments from catering officer, tidies cabin and ensures equipment safely stowed. Greets passengers boarding aircraft and directs them to allocated seats. Operates public address system. Explains safety procedures and demonstrates use of safety equipment such as seat belts, oxygen masks and life jackets. Ensures that seat belts are fastened and no smoking regulations are observed during take-off, landing and emergencies. Assists passengers in emergencies according to established procedures. Distributes reading materials, pillows and blankets upon request and answers inquiries. Serves refreshments and previously prepared meals. Serves alcoholic beverages and collects payments. Provides information to passengers regarding taxis and hire cars and prepares hire car list if required. Observes passengers during flight to detect signs of discomfort, such as airsickness or nervousness, and administers minor medical aid. Prepares in-flight service reports showing flight information, such as meal and beverage inventories, palliatives issued, and lost and found articles.

May proceed to higher positions and be designated accordingly, e.g.

Check Flight Attendant

Senior Flight Attendant

Chief Flight Attendant

*Job Content Factors**Workers*

FP: GE10y

IP: T3m

HC: SC

RQ: D1 A1

*Materials*

SM: D2 P1 T2

EQ: N1 W2

*Functions*

MA: D2 R3 M3 L2

PA: U1 H2 S2 W1 E2

SA: L1 I1

*Context*

EC: T2 M2 L1

TC: A1 I1

SS: 4

SC: 7 (vy)

LMS: 4000-5000(0 %SE)

ASIC: 5403

**4294-C****GROUND AGENT****Ground Host/Hostess**

Provides services to, and ensures safety of, airline passengers prior to and after boarding aircraft, performing any combination of the following duties.

Ensures safety of passengers crossing tarmac. Directs and assists passengers through quarantine, immigration and customs areas. Identifies and directs passengers to transit lounge and assists elderly passengers, women with infants, invalids and non-English speaking passengers. Chaperones unaccompanied young people during overnight transits. Attends to injuries until medical aid available. Broadcasts announcements using public address system and provides information to passengers on request. Attends to seat allocation and ticketing. Reconciles passenger numbers with immigration clearance. Distributes mail, types manifests and operates switchboard and telex as required.

*Job Content Factors**Workers*

FP: GE10y

IP: T1w

HC: SC

RQ: D1

*Materials*

SM: D2 P1 T2

EQ: N1 K2

*Functions*

MA: D2 R3 M3 L2

PA: P2 U1 S2 W2 E2

SA: L1 I1

*Context*

EC: L4

TC: A1 I1

SS: 9

SC: 10 (vy)

LMS: 50 (0 %SE)

ASIC: 5403

**4295 MARINE/RAIL PORTERS AND STEWARD/STEWARDESS OCCUPATIONS**

This unit group covers occupations concerned with providing personal services in a hotel or aboard a ship or train.

**Entry Requirements** Year 9 and in some cases, previous related work experience is preferred.

**Activities include** serving meals, cleaning cabins and compartments, and meeting personal requirements of passengers and crew.

**4295-A****MARINE STEWARD/STEWARDESS**

Provides cabin, dining room and bar services and attends to the comfort and needs of passengers and crew aboard ship, by performing any combination of the following duties.

Cleans cabins, lounges, dining rooms and washrooms; using vacuum cleaner, broom, mop, cloths and sponges. Cleans alleyways and bulkheads, if required. Changes linen and towels and makes beds and berths. Replenishes expendable supplies. Collects and launders clothing and linen of passengers and crew. Directs passengers and carries baggage to and from assigned cabins. Answers queries and dispatches messages. Provides room service for passengers and crew. Sets table in dining room and serves food and drink. Prepares and

serves drinks at bar. Assists with preparation and presentation of food in kitchen, checks and replenishes pantry supplies, and washes dishes. Works as member of rescue team, when required. Participates in emergency drills.

May assist with the loading of stores. May provide cleaning services and assistance in the kitchen on offshore drilling rig.

May be designated according to level of responsibility, e.g.

Assistant Steward (Marine) Chief Steward (Marine)

Second Steward (Marine)

**Job Content Factors**

<i>Workers</i>	
FP: GE9y	IP: T4-6w E2-5y
HC: SCR	RQ: D1
<i>Materials</i>	
SM: P1 T1	EQ: N1 M2
<i>Functions</i>	
MA: D3 R4 M3 L2	
PA: U1 H1 W1 E3	SA: L1 I1
<i>Context</i>	
EC: L1	TC: A1 I1
SS: 9	SC: 10 (vy)
LMS: 1000-2000(0 %SE)	ASIC: 5304

**4295-B RAILWAY PORTER, LUGGAGE**

Attends to the loading and unloading of customers' baggage at railway station, performing any combination of the following duties.

Receives baggage from passenger. Tags baggage and gives numbered identification slip to passenger. Loads and unloads baggage cars and transports goods to appropriate receiving area, using hand cart or baggage trolley. Hitches and unhitches fork lift to and from luggage trolley prior to and after transportation to area of use. Sweeps and cleans station area and collects litter.

May load and unload freight from train. May assist guard. May supervise other luggage porters and be designated, e.g. Senior Porter, Luggage

**Job Content Factors**

<i>Workers</i>	
FP: GE9y	IP: T1m
HC: RC	RQ: D1
<i>Materials</i>	
SM: D2 P2 T1	EQ: N1 V2 W1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 H1 W1 E4	SA: S2 L1 I1
<i>Context</i>	
EC: L4	TC: A1 I1
SS: 3	SC: 4 (vy)
LMS: 4000-5000(0 %SE)	ASIC: 5200

**4295-C RAILWAY CONDUCTOR, SLEEPING CAR**

Attends to comfort and personal needs of railroad sleeping car passengers.

Examines boarding passengers' tickets and confirms name recorded on passenger list. Shows passengers to their compartments. Serves food and beverages. Provides passengers with articles such as additional blankets and pillows, if requested. Confirms journey arrangements on behalf of passenger, or requests station master to confirm arrangements.

Changes linen and prepares beds in cabins. Knocks on doors, or calls out, to awaken passengers at times requested. Provides information regarding connecting points, arrival and departure times, and train stops, when requested. Announces names of station stops and ensures passengers leave train at proper stops.

May supervise other conductors and be designated, e.g. Senior Conductor, Sleeping Car

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP: T1m
HC: SR	RQ: D1
<i>Materials</i>	
SM: D2 P1 T1	EQ: N1
<i>Functions</i>	
MA: D3 R3 L2	
PA: U1 W1 E3	SA: L1 I1
<i>Context</i>	
EC: L1	TC: A1 I1 R2
SS: 4	SC: 5 (vy)
LMS: 250-500 (0 %SE)	ASIC: 5200

**4295-D HOTEL PORTER  
Hotel Page**

Escorts hotel guests to rooms, carries guests' luggage and provides personal services.

Shows incoming guests to their rooms and carries their luggage. Answers guests' questions and provides information regarding services, layout and facilities of establishment, local points of interest, and entertainment attractions. Books tours, taxis and restaurants and confirms flight reservations on guests' behalf. Carries luggage to awaiting cars. Opens car door for guests. Pages guests in lobby, dining room or other parts of establishment. Carries out other personal services, such as collection and delivery of laundry out of hours as requested by customer. Tidies lobby and empties waste bins and ash trays. Runs errands.

May provide room service for guests. May park guests' vehicles.

**Job Content Factors**

<i>Workers</i>	
FP: GE9-10y	IP: T1-2w
HC: RS	RQ: L2 D2
<i>Materials</i>	
SM: P2 T1	EQ: N1 V2 W2
<i>Functions</i>	
MA: D3 R4 M3 L2	
PA: U2 H1 S2 W1 E3	SA: S1 L2 I1
<i>Context</i>	
EC: L1	TC: A1 I1
SS: 2	SC: 3 (vy)
LMS: 3000-4000(0 %SE)	ASIC: 92

**4296 COLLECTORS**

This unit group covers occupations concerned with collecting payments on instalments or overdue accounts, and tracing whereabouts of customers.

**Entry Requirements** Year 10-12 and related work experience.

**Activities include** tracing debtors, collecting all or part of overdue accounts, recording payments, notification of overdue amounts, collection of coins from self service points and machines, and accepting prepayment on articles set aside for collection.

#### 4296-A DEBT COLLECTOR Collection Agent

Collects overdue accounts, instalments, damage claims or cheques issued with insufficient funds for collection agency.

Visits or telephones customer to collect amount due or arranges for payment at a later date. Traces addresses of customers who have moved, by making inquiries. Keeps records of accounts collected and those which require further action. Recommends legal action when it is impossible to collect payment of accounts by other means.

##### Job Content Factors

###### Workers

FP: GE10-12y  
HC: EIC

IP: T2m E2-4y  
RQ: L2 S1 P1 U2

##### Materials

SM: D2 P1

EQ:

##### Functions

MA: I2 P2 D2 R3 M3 L2

PA: W1 E1

SA: A2 S2 L2 I1

##### Context

EC: T1 L3

SS: 4

TC: A1 I1 T2

SC: 6 (vy)

LMS: NA (20% SE)

ASIC: 638

#### 4296-Z COLLECTORS nec

This residual group covers collectors not elsewhere classified in Unit Group 4296, e.g.

Collector, Parking Meter

### 4297 MUSICAL INSTRUMENT REPAIRING OCCUPATIONS

This unit group covers occupations concerned with repairing various musical instruments.

**Entry Requirements** Year 10-11 and, in some cases, a trade qualification.

**Activities include** repairing and tuning pianos and repairing organs, accordions and string, wind or percussion instruments.

#### 4297-A PIANO TUNER/REPAIRER

Tunes and repairs pianos and pianolas.

Removes cover from piano to expose strings. Places strips of felt between strings nearest one to be tested to mute them. Strikes note and compares pitch with that of standard tuning fork. Turns tuning pin with tuning hammer to adjust tension on string until pitch of string and that of tuning fork correspond. Tunes remaining strings, by aural comparison to tuned string. Tests piano components, such as keyboard, soundboard, frame, pedal and action assemblies, using specialised hand tools and gauges. Levels keys by inserting paper and felt shims. Detaches action mechanism and replaces faulty, worn or broken parts, such as hammers, shanks, dampers, felts and joint connections. Aligns hammers and turns screws to adjust striking action of keys. Replaces strings and tuning pins. Examines wooden parts for splits, warps and other defects. Repairs or replaces wooden parts, such as bridges and soundboard.

##### Job Content Factors

###### Workers

FP: GE10y PSP4y(T)  
or FP: GE10y  
HC: RAE

IP:  
IP: T4y  
RQ: L1 Q2 A1

##### Materials

SM: D2 P2 T1

EQ: S1 K1

##### Functions

MA: A1 D2 R3 M3 L3

PA: P2 U1 C1 S2 W2 E2

SA: A2 S2 B2 R4

##### Context

EC: M2 L1 C09

SS: 3

TC: A1 I2

SC: 8 (vy)

LMS: NA (0 %SE)

ASIC: 913

#### 4297-B STRINGED MUSICAL INSTRUMENT MAKER/REPAIRER Luthier

Constructs, repairs or restores fretted or bowed musical

instruments, such as guitars and violins applying knowledge of wood properties and instrument design and construction, using hand and power tools.

Selects material and makes templates. Operates woodworking machines such as bandsaw, router, fly cutter and drill press to cut, shape, trim and drill wooden parts. Soaks and bends wooden strips over forms to shape instrument sides. Glues wooden parts together to form complete instrument, using jigs, forms and clamps. Cuts files and fits frets, using hand tools and makes and installs parts such as timber keys, nuts, bridges, tail pieces and pegs. Applies varnish, paint or lacquer using a spray gun or brush, and buffs instrument to obtain attractive finish. Strings instruments and plucks or bows strings to test tonal quality and makes changes to improve tone as necessary. Inspects and plays instrument to determine defects. Disassembles instrument using hand tools. Removes cracked or broken section using knife. Glues cracked part, places in plaster cast, and clamps cast in hand press. Cuts out broken sections, carves replacement parts and fits them to original shape and dimensions of instrument. Reassembles body of instrument. Repairs bows. Replaces skin or plastic heads of banjos. Adjusts or alters musical instrument to owner's specification.

May add electrical components such as pick-up. May make a particular instrument or repair, rebuild or restore stringed instrument and bows, and be designated accordingly, e.g.

Bass Viola Maker/Repairer  
Classical Guitar Maker/Repairer  
Guitar Maker/Repairer  
Mandolin Maker/Repairer  
Violin Maker/Repairer

##### Job Content Factors

###### Workers

FP: GE10-11y  
HC: RA

IP: T4-10y  
RQ: Q1 U1 V1 A1

##### Materials

SM: D2 I2 P2 T1

EQ: P1 S1 M2 K2

## Functions

MA: I2 A1 P2 D2 R2 M2 L2

PA: P1 H1 S2 W1 E3

SA: A1 S1 I2 P1 B2 R4

## Context

EC: L1 C02.09

TC: A1

SS: 3

SC: 5 (vy)

LMS: 220 (0 %SE)

ASIC: 3487,4855

## 4297-Z

MUSICAL INSTRUMENT REPAIRING  
OCCUPATIONS nec

This residual group covers occupations concerned with repairing various musical instruments, e.g.

Accordion Repairer  
Percussion Instrument Repairer  
Pipe Organ Builder/Repairer  
Wind Instrument Repairer

## 4299 OTHER SERVICE OCCUPATIONS

This residual unit group covers occupations concerned with providing other services, such as interpreting, introductory services, parking cars, collecting fees at sporting facilities, operating lifts, attending to checkroom, and shining shoes.

**Activities include** providing a service to persons patronising commercial organisations or pleasure events, that have not been allocated to another specific unit group.

## Related Occupations

Unit Group 4132

: Sales Attendants and Checkout Operators

## 4299-A INTERPRETER

Interprets the spoken work from one language to another.

Provides simultaneous spoken translations of speeches into the language of other participants at international conferences, debates and similar proceedings. Attends discussions, negotiations and similar meetings, and provides consecutive spoken translations of the words of the speakers into the languages of other participants. Endeavours to interpret the exact meaning and feeling of what is said.

May also translate written texts. May be designated according to specialisations, e.g.

Bilingual Interpreter

Consecutive Interpreter

Court Interpreter

Multilingual Interpreter

Simultaneous Interpreter

## Job Content Factors

## Workers

FP: GE12y PSP2-3y(D) / (Adip)

IP:

or FP: GE12y

IP:

HC: ASC

RQ: S2 U2 V1 A2

## Materials

SM: D1 I2 P2

EQ: K2

## Functions

MA: A2 R3 L1

PA: P2 E1

SA: S1 I2

## Context

EC: M1 L4

TC: A1 S2 I2 R2 T2

SS: 4

SC: 9 (vy)

LMS: NA (20%SE)

ASIC: 6389

## 4299-B INTRODUCTORY CONSULTANT

Arranges introduction of persons likely to have compatible personalities.

Interviews client to determine suitability for agency membership and obtains personal information including interests of client. Explains purpose, procedures and cost of service, and completes contractual agreement to provide service. Collects fee from client and records payment. Analyses data to match compatible clients. Notifies clients, by telephone or mail, of likely match and gains approval to

release telephone number to enable clients to contact each other. Maintains clients' information files. Regularly contacts clients to ensure service still required.

May type information onto client card. May take photograph of client.

## Job Content Factors

## Workers

FP: GE10y

IP: T1m

HC: SE

RQ:

## Materials

SM: D2 P1

EQ: K2

## Functions

MA: P1 D2 R3 M3 L2

PA: S1 E1

SA: L1 I1

## Context

EC: L1

TC: A1

SS: V

SC: V

LMS: 50-100 (0 %SE)

ASIC: 9364

## 4299-C

## CROUPIER

Conducts games of chance, such as dice, roulette and cards, in gaming establishment.

Ensures that all wagers are placed before roulette wheel is spun or dice are tossed, announces winning number or colour to players; pays our winning bets using tokens and chips and collects losing bets and tokens; explains and interprets gaming rules of establishment.

May exchange currency for playing tokens and chips or coin.

## Job Content Factors

## Workers

FP: GE NFR

IP: T1-2m

HC: ERC

RQ: Q1 D1 V1

## Materials

SM: D2 P1 T2

EQ: M1

## Functions

MA: D3 R3 M2 L2

PA: P1 W1 E1

SA: L1 I1

<i>Context</i>	
EC: L1 C13	TC: A1 I1 R2 T2
SS: V	SC: V
LMS: 400 (0 %SE)	ASIC: 9143

#### 4299-D LIFT OPERATOR Lift Attendant

Operates lift to transport passengers or freight between floors of multi-level building.

Manipulates control lever or pushes button to lower lift to floor level desired. Watches and listens for signalling device indicating floor requiring lift service. Opens and closes lift doors and safety gates at each stop. Gives information to clients looking for places or things within establishment.

##### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: RS	RQ: D2
<i>Materials</i>	
SM: P1 T1	EQ: S1 V1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 S1 W2 E1	SA: L1 I1
<i>Context</i>	
EC: L1	TC: A1 R2
SS: 2	SC: 2 (vy)
LMS: 500 (0 %SE)	ASIC: Many

#### 4299-E CAR PARK ATTENDANT Car Jockey

Attends car parking facility, performing any combination of the following duties.

Issues customer with ticket and directs to parking space. Enters date and time of entry on ticket, if required. Collects fee on entry; or calculates fee from time entered on ticket and collects fee as vehicle leaves car park. Operates cash register, if provided. Operates boom gate to allow exit of vehicle. Rearranges cars if necessary. Erects sign, or switches on electric sign, to indicate that car park is full. Patrols car park to ensure vehicles correctly parked and to deter vandalism, if required. Records evidence of vandalism or theft to employers or authorities. Records daily totals of transactions, if required.

May specialise and be designated accordingly, e.g.  
Car Marshal

##### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: R	RQ: L2 D1 V1 A2
<i>Materials</i>	
SM: D1 P2 T1	EQ: K1 V2
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C1 H2 S2 W2 E2	SA: L1 I1
<i>Context</i>	
EC: L4	TC: A1 I2 R2
SS: 3	SC: 5 (vy)
LMS: 2000-3000(0 %SE)	ASIC: 5108

#### 4299-F PEST CONTROL OPERATOR Pest Control Technician; Pest Control Serviceman/woman; Exterminator, Pest

Applies pesticides and pest management techniques in domestic, commercial and industrial areas to kill or control pests.

Inspects buildings and surrounding areas at regular intervals or at specific request of property owner to detect signs of termites, rodents, weeds or other pests. Determines type of treatment. Gives client estimate of cost. Mixes chemicals to specified concentration. Operates generators, compressors and manual or electric pumps to inject or spray liquid and gaseous pesticides in affected areas. Applies pesticides in pre-treatment

of building sites. Uses manual and electric hand tools to gain access to floor, wall and roof cavities. Dusts infested areas with poisonous powder. Sets mechanical traps and places poisonous bait in infested areas. Uses suitable materials to proof buildings against birds, insects, possums and other pests. Seals vents and other openings with tape and tarpaulin prior to fumigating affected areas. Turns cylinder valves to discharge fumigants. Fumigates storage spaces, house furnishings or clothing.

May advise on sanitation and preventive pest control techniques. May apply timber hardening additives to prevent wood borers. May apply neutralising agents to dispel offensive odours. May specialise in a particular type of pest control and be designated accordingly, e.g.

Fumigator  
Weed Specialist      Ratman/woman  
Weed Controller

##### Job Content Factors

<i>Workers</i>	
FP: GE9-10y PSP4-9m(B)	IP: T6m
HC: RIC	RQ: S1 D1
<i>Materials</i>	
SM: D2 T1	EQ: N1 M2
<i>Functions</i>	
MA: P1 D2 R3 M3 L2	
PA: U1 C1 W1 E3	SA: A2 S2 I1
<i>Context</i>	
EC: L4 C02.09	TC: A1
SS: 3	SC: 4 (vy)
LMS: 4000-5000(0 %SE)	ASIC: 6386.0206

#### 4299-G VALUER (GENERAL) Appraiser

Assesses value of commercial equipment, merchandise, personal and household effects and objects of art for private, commercial and institutional clients.

Examines items, selects appropriate method upon which to base the valuation, calculates value having regard to market demand, condition of items, future trends and related contingencies. Submits written assessment.

May specialise in a certain type of article, equipment or commodity and be designated accordingly, e.g.

Valuer, Antique and Fine Art

##### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: E10y
HC: ECS	RQ: U1
<i>Materials</i>	
SM: D1 P2 T1	EQ:
<i>Functions</i>	
MA: I2 A1 D2 R3 M3 L2	
PA: S2 W1 E1	SA: A1 S2 B2 R4
<i>Context</i>	
EC: L1	TC: A1
SS: 4	SC: V
LMS: 3500-4500(0 %SE)	ASIC: 47.48

#### 4299-H HOUSEKEEPER

Performs housekeeping duties in private home by performing any combination of the following duties.

Prepares meals independently or with employer. Purchases food and other supplies. Prepares and cooks food according to employer's instructions or own methods, serves meals and refreshments. Cares for and supervises children or assists parents in caring for children. Assumes full responsibility for household and children when parents absent. Washes dishes, kitchen utensils and equipment. Sweeps and washes floors and vacuums carpets, drapes and upholstered furnishings. Dusts and polishes furniture, and cleans mirrors and light fixtures. Washes and irons garments, linen and household articles.

Makes beds and changes linen. Cleans and disinfects bathroom fixtures. Cleans stove and oven when necessary. Takes messages when employer absent.

May answer doorbell and telephone on behalf of employer. May mend garments. May be responsible for household accounts and prepare expenditure reports for employer. May assign work to domestic cleaner. May specialise and be designated accordingly, e.g.

Parent's Helper

Job Content Factors

Workers	
FP: GE NFR	IP: T1w
HC: RS	RQ: D2
Materials	
SM: P2 T1	EQ: S1 N1

Functions	
MA: P2 D2 R3 M3 L2	
PA: U1 H1 S2 W2 E3	SA: A2 S2
Context	
EC: L1	TC: A1 I1
SS: V	SC: V
LMS: 30000 (0 %SE)	
ASIC: 9364.940	

4299-Z SERVICE OCCUPATIONS nec

This group covers miscellaneous occupations not elsewhere classified concerned with providing miscellaneous services such as storing wearing apparel and other articles for patrons of establishment; and cleaning and polishing shoes for customers and various other occupations, e.g.

Butler	Checkroom Attendant
Home Helper/Companion	Lighthouse Keeper
Marriage Celebrant	Shoe Shine
Station Assistant (Railway)	Purser (Ship)



## **SUPER GROUP 5**

### **Primary Production Occupations**

Primary Production Occupations are classified in the following major groups.

- 50    Agricultural Occupations
- 51    Fishing and Hunting Occupations
- 52    Forestry Occupations
- 53    Mining Occupations



## **MAJOR GROUP 50**

### **AGRICULTURAL OCCUPATIONS**

Agricultural Occupations are classified in the following minor groups.

- 500 Farmers and Stockowners
- 501 Farm and Related Occupations
- 502 Amenity Horticultural Occupations

#### *Related Occupations*

- Occupation 7001-Z : Aerial Crop Sprayer
- Occupation 4122-D : Stock and Station Agent

**500 FARMERS AND STOCKOWNERS****5000 LIVESTOCK FARMERS AND FIELD CROP GROWERS**

5000-A Farmer, Mixed Produce  
 5000-B Beef Cattle Farmer  
 5000-C Dairy Farmer  
 5000-D Sheep Farmer  
 5000-E Goat Farmer  
 5000-F Pig Farmer  
 5000-G Poultry Farmer, Egg Production  
 5000-H Poultry Farmer, Meat Production  
 5000-I Livestock Breeder  
 5000-J Cereal Grain and Oilseed Grower  
 5000-K Sugar Cane Grower  
 5000-L Tobacco Grower  
 5000-M Apiarist  
 5000-Z Livestock Farmers and Field Crop Growers nec

**5001 FRUIT AND VEGETABLE GROWERS**

5001-A Fruit (Perennial Horticultural Crop) Grower  
 5001-B Vegetable (Annual Horticultural Crop) Grower  
 5001-Z Fruit and Vegetable Growers nec

**5002 APPRENTICE FARMING OCCUPATIONS**

5002-A Farm Apprentice

**5009 OTHER FARMERS AND STOCKOWNERS**

5009-A Trainee Farm Manager  
 5009-Z Farmers and Stockowners nec

**501 FARM AND RELATED OCCUPATIONS****5010 FARM OVERSEERS AND RELATED OCCUPATIONS**

5010-A Overseer, Farm  
 5010-B Overseer, Shearing Shed

**5011 SHEEP SHEARERS AND WOOL PRESSERS**

5011-A Shearer  
 5011-B Wool Presser

**5012 ANIMAL TRAINING AND RELATED OCCUPATIONS**

5012-A Animal Trainer  
 5012-B Groom (Horse)  
 5012-C Horse Breaker  
 5012-D Farrier (Non-Apprenticed)

**5013 FARM MACHINERY OPERATORS**

5013-A Farm Machinery Operator

**5014 FARM HANDS AND ASSISTANTS**

5014-A Farm/Station Hand, Livestock and/or Field Crops  
 5014-B Farm Hand, Fruit and Vegetables (Horticultural Crops)  
 5014-C Shearing Shed Hand  
 5014-D Apiary Assistant  
 5014-E Hatchery Assistant

**5019 OTHER FARM AND RELATED OCCUPATIONS**

5019-A Artificial Insemination Technician  
 5019-B Serviceman/woman, Chicken Meat  
 5019-C Sugar Cane Inspector  
 5019-D Shearing Shed Expert  
 5019-E Animal Attendant  
 5019-Z Farm and Related Occupations nec

**502 AMENITY HORTICULTURAL OCCUPATIONS****5020 SUPERVISORS, AMENITY HORTICULTURE**

5020-A Supervisor, Plant Nursery  
 5020-B Supervisor, Parks and Gardens  
 5020-C Head Groundsman/woman  
 5020-Z Supervisors, Amenity Horticulture nec

**5021 GARDENERS AND NURSERY MEN/WOMEN**

5021-A Nursery Man/Woman  
 5021-B Gardener, Public Gardens  
 5021-C Groundsman/woman  
 5021-D Gardener, Private Garden  
 5021-E Landscape Gardener

**5022 APPRENTICE AMENITY HORTICULTURE TRADE OCCUPATIONS**

5022-A Apprentice Nursery Man/Woman  
 5022-B Apprentice Gardener  
 5022-C Apprentice Greenkeeper  
 5022-D Apprentice Landscape Gardener

**5029 OTHER AMENITY HORTICULTURAL OCCUPATIONS**

5029-A Tree Attendant  
 5029-B Operator, Amenity Horticulture Machinery  
 5029-C Nursery Attendant (Horticulture)  
 5029-Z Amenity Horticultural Occupations nec

## MINOR GROUP 500 FARMERS AND STOCKOWNERS

Farmers and Stockowners are classified in the following unit groups.

- 5000 Livestock Farmers and Field Crop Growers
- 5001 Fruit and Vegetable Growers
- 5002 Apprentice Farming Occupations
- 5009 Other Farmers and Stockowners

### 5000 LIVESTOCK FARMERS AND FIELD CROP GROWERS

This unit group covers occupations concerned with planning, organising, supervising and controlling the operation of farms whose activities include raising sheep, cattle and other farm animals for products such as wool, meat, milk and/or eggs, or for breeding stock, and/or growing field crops.

**Entry Requirements** no formal requirements, or a trade/para-professional/associate diploma qualification in agricultural science or a related area and up to 2 years' experience.

**Activities include** future planning and decision-making with regard to farm activities; planning on an ongoing basis, preparing, maintaining and presenting production, cost and other records; hiring, training and supervising workers; selecting and purchasing equipment and supplies; and participating in the daily work of the farm.

#### 5000-A FARMER, MIXED PRODUCE Mixed Farmer

Operates farm involved in two, or more, significant agricultural product farming activities.

Programs, implements and monitors farm operations. Plans, on an ongoing daily basis, type and quantity of crops to be grown and/or livestock to be raised, according to market conditions. Determines amounts and kinds of inputs to purchase, such as seed, farm machinery, livestock, feed, pesticides, fertiliser and other supplies. Drives, operates and maintains a varied range of farm plant including tractors, cultivators, seeders and harvesters. Seeks professional advice when required. Effects repairs to farm plant, equipment, buildings, fences and water supplies. Ensures livestock are adequately fed and watered, and performs other husbandry duties, such as marking lambs, drenching, mustering, droving, trucking and implementing health care programs. Markets or negotiates sale of products. Records production, sales, receipts, expenditure and other data.

May hire and train farm workers. May attend seminars, field days, shows and markets, and exhibit stock. May grow cereal crop and use as feed for livestock if crop fails, to save cash loss. May specialise in a particular combination of farming activities and be designated accordingly. e.g.

Cattle/Sheep/Cereal Crop Farmer  
Cattle/Wheat Farmer  
Mixed Livestock Farmer  
Sheep/Cattle Farmer  
Wheat/Sheep Farmer  
Beef/Sheep Farmer; Beef/Sheep Producer

#### Job Content Factors

##### Workers

FP: GE10-12y PSP2-4y (Adip) / (T)	IP: E0-2y
or FP: GE NFR	IP: T4y
HC: RIC	RQ: L1 V1

##### Materials

SM: D1 P2 T1	EQ: S1 N1 M1 V1
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##### Functions

MA: A1 P1 D2 R2 M3 L2	
PA: U1 C1 H1 S2 W1 E4	SA: S1 P2 B1 R4

##### Context

EC: L2 C02.09	TC: A1 I1 T1
SS: 10	SC: 10 (vy)

LMS: 25000 (99%SE)

ASIC: 01

#### 5000-B BEEF CATTLE FARMER Beef Cattle Producer; Cattle Farmer; Cattle Grazier

Plans, supervises and performs a variety of farming or station operations to breed and raise beef cattle.

Determines breed and quantity of livestock to be raised, according to market conditions. Purchases farm machinery, livestock, feed and other supplies. Builds fences and stock yards. Selects appropriate sowing and fertiliser rates for pastures and crops, and operates farm machinery to sow, fertilise and harvest them. Conserves fodder. Ensures adequate water supply. Seeks professional advice when necessary. Ensures cattle are adequately fed and watered including supplementary feeding when necessary. Organises various husbandry activities, such as castration, dehorning, inoculation, drenching, spaying and tail tagging, and pest and disease control programs. Brands or tattoos cattle. Markets livestock or negotiates their sale with buyers.

May hire and train farm workers. May grow supplementary crops to offset feed shortages. May attend seminars, field days, shows and markets. May exhibit stock. May specialise in a particular aspect of beef cattle farming and be designated accordingly, e.g.

Calf Rearer; Veal Producer Cattle Dealer  
Fattener (Beef Cattle) Store Cattle Grazier  
Lot Feeder; Feedlotter; Feed Lot Cattle Farmer

May manage farm on behalf of farm owner and be designated accordingly,

Farm Manager, Beef Cattle

#### Job Content Factors

<b>Workers</b>	
FP: GE10-12y PSP2-4y (Adip) / (T)	IP: E0-2y
or FP: GE NFR	IP: T4y
HC: RCE	RQ: L1 V1
<b>Materials</b>	
SM: D2 P1 T1	EQ: S1 N1 M1 V1
<b>Functions</b>	
MA: A2 P1 D2 R2 M3 L2	
PA: U1 C1 H1 S2 W1 E4	SA: A2 S1 T2 R4-3
<b>Context</b>	
EC: L4	TC: A1 I1 T2
SS: 1	SC: 1 (vy)
LMS: NA (99%SE)	ASIC: 0186

### 5000-C DAIRY FARMER

Directs, supervises and performs a variety of farming operations to breed and raise dairy cattle for milk production and for sale as breeding stock, selling culled stock as meat.

Determines breed and quality of livestock to be raised, according to market conditions. Organises feeding and watering of cattle, plans milking schedule, and plans breeding programs including the use of artificial insemination. Milks cows using milking machine. Disposes of dairy effluence. Arranges adequate drainage. Organises various husbandry activities, such as mastitis control, drenching, vaccinating, dehorning, herd testing, pregnancy testing and herd health programs. Brands and tattoos cattle. Selects appropriate sowing and fertiliser rates for pastures and crops, and operates farm machinery to sow, fertilise and harvest them. Cleans sheds, and cleans and sterilises milking machines and equipment to maintain product quality and health standards. Raises calves for replacements or beef. Sells cull cows for meat. Markets milk and cream. Seeks professional advice when necessary. Maintains fences and yarding in good condition. Maintains pastures in good condition by harrowing, controlling weed growth, correct fertiliser application, spraying pastures for pests, and good grazing management. Plants wind breaks and shade trees. Conserves fodder as hay or silage. Grows supplementary crops. Maintains farm records as required to operate farm commercially.

May rely on rainfed or irrigated pasture. May attend seminars, field days, shows and markets. May exhibit stock. May hire and train farm workers. May manage farm on behalf of farm manager and be designated accordingly,

Farm Manager, Dairy

#### Job Content Factors

<b>Workers</b>	
FP: GE10-12y PSP2-4y (Adip) / (T)	IP: E0-2y
or FP: GE NFR	IP: T4y
HC: RCE	RQ: L1 V1
<b>Materials</b>	
SM: D2 P1 T1	EQ: S1 N1 M1 V2
<b>Functions</b>	
MA: A1 P1 D2 R2 M3 L2	
PA: U1 C1 H1 S2 W1 E4	SA: S1 B1 R4-3
<b>Context</b>	
EC: L4	TC: A1 I1
SS: 6	SC: 6 (vy)
LMS: 45000 (99%SE)	ASIC: 0187

### 5000-D SHEEP FARMER Sheep Producer

Directs, supervises and performs a variety of farming and station operations to breed and raise sheep for production of wool, meat and breeding stock.

Determines breed, quantity and quality of livestock to be raised, according to market conditions. Purchases farm machinery, livestock, feed and other supplies. Selects appropriate sowing and fertiliser rates for pastures and crops, and operates farm machinery to sow, fertilise and harvest them. Ensures sheep are adequately fed and watered including supplementary feeding when necessary. Plants trees for wind and shade direction. Organises various husbandry activities such as crutching, drenching, dipping, ear tagging, mulesing, lamb marking, raddling, vasectomy and castration. Seeks professional advice when necessary. Effects repairs to farm plant, equipment, buildings, fences and water supplies. Organises shearing program. Markets wool, and sheep for slaughter and as breeding stock.

May hire and train farm workers. May attend seminars, field days, shows and markets. May exhibit stock. May specialise in one aspect of sheep farming and be designated accordingly, e.g.

Export Wether Producer Fat Lamb Producer  
Merino Wool Producer Wool Producer; Wool  
Grower

May manage farm on behalf of farm owner and be designated accordingly,

Farm Manager, Sheep; Station Manager, Sheep

#### Job Content Factors

<b>Workers</b>	
FP: GE10-12y PSP2-4y (Adip) / (T)	IP: E0-2y
or FP: GE NFR	IP: T4y
HC: RCE	RQ: L1 V1
<b>Materials</b>	
SM: D2 P1 T1	EQ: S1 N1 M1 V1
<b>Functions</b>	
MA: A1 P1 D2 R2 M3 L2	
PA: U1 C1 H1 W1 E4	SA: S1 B1 R4-3
<b>Context</b>	
EC: L4 C02,09	TC: A1 I1
SS: 5	SC: 5 (vy)
LMS: NA (99%SE)	ASIC: 0185

### 5000-E GOAT FARMER

Directs, supervises and performs a variety of farming operations to breed and raise goats for sale of fibre, milk or meat.

Determines breed, quantity and quality of livestock to be raised, according to market conditions. Purchases farm machinery, livestock, feeds, and other supplies. Builds and maintains stock yards. Plans breeding schedule to produce offspring for market. Ensures goats are adequately fed and watered. Milks goats by hand or milking machine. Seeks professional advice when necessary. Conserves fodder and grows supplementary crops to offset feed shortages. Organises and arranges various husbandry activities, such as crutching, drenching, dipping, ear tagging and herd health programs. Maintains pastures in good condition by harrowing, controlling weed growth, correct fertiliser application, spraying pastures for pests, and good grazing management. Negotiates sale of live goats or goat produce.

May hire and train farm workers. May attend seminars, field days, shows and markets. May exhibit stock. May manage farm on behalf of farm owner and be designated accordingly,

Farm Manager, Goat

#### Job Content Factors

<b>Workers</b>	
FP: GE10-12y PSP2-4y (Adip) / (T)	IP: E0-2y
or FP: GE NFR	IP: T4y
HC: RCE	RQ: L1 V1

<b>Materials</b>	
SM: D2 P1 T1	EQ: S1 N1 M1 V1
<b>Functions</b>	
MA: A1 P1 D2 R2 M3 L2	
PA: U1 C1 H1 W1 E4	SA: S1 P2 B1 R3-4
<b>Context</b>	
EC: L4 C02,09	TC: A1 I1
SS: 5	SC: 5 (vy)
LMS: NA (99%SE)	ASIC: 0196

**5000-F PIG FARMER**

Operates a piggery for the production of meat.

Implements a herd breeding program by selecting and purchasing breeding stock. Directs, supervises or performs the purchase, formulation and mixing of feed; the feeding of pigs; the mating of breeding stock; pig health programs; welfare and hygiene procedures; the maintenance of breeding, farrowing, feeding and marketing records; the maintenance of piggery buildings and facilities; and the marketing of pigs. Seeks professional advice when necessary.

May select appropriate sowing and fertiliser rates for pastures and crops, and operate farm machinery to sow, fertilise and harvest them. May hire and train farm workers. May attend seminars, field days, shows and markets. May exhibit stock. May manage farm on behalf of farm owner and be designated accordingly.

Manager, Piggery; Farm Manager, Pig

<b>Job Content Factors</b>	
<b>Workers</b>	
FP: GE10-12y PSP2-4y (Adip) / (T)	IP: E0-2y
or FP: GE NFR	IP: T4y
HC: RCE	RQ: L1 V1
<b>Materials</b>	
SM: D2 P1 T1	EQ: S1 N1 M1 V1
<b>Functions</b>	
MA: A1 P1 D2 R2 M3 L2	
PA: U1 C1 H1 S2 W1 E4	SA: S1 P2 B1 R3-4
<b>Context</b>	
EC: L4 C02,09	TC: A1 I1
SS: 5	SC: 5 (vy)
LMS: NA (99%SE)	ASIC: 0188

**5000-G POULTRY FARMER, EGG PRODUCTION  
Egg Producer**

Directs, supervises and performs farming operations to raise poultry for egg production.

Determines number of laying hens for egg production, according to market conditions. Seeks professional advice when necessary. Negotiates contracts with marketing organisations. Maintains a high standard of health and productivity in poultry by supplying feed and water, protection from the elements, and comfortable temperature, ventilation and lighting conditions. Hires and trains farm workers. Supervises or participates in the collection, grading and packaging of eggs for sale, storage or shipment. Organises and participates in husbandry practices, such as vaccinations, control of internal and external parasites, beak trimming and disease surveillance, and culling and selling of non-productive birds to maintain the health and productivity of stock. Cleans and disinfects equipment, pens, sheds and cages. Arranges for disposal of manure. Prepares farm records for accounting. Purposes and monitors the effect of management decisions in respect to husbandry, breed, pullet rearing regime and feeding programs.

May attend seminars, field days, shows and markets. May exhibit produce. May manage farm on behalf of owner and be designated accordingly.

Farm Manager, Poultry Egg Production

<b>Job Content Factors</b>	
<b>Workers</b>	
FP: GE10-12y PSP2-4y (Adip) / (T)	IP: E0-2y
or FP: GE NFR	IP: T4y
HC: REC	RQ: V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: S1 N1 M1
<b>Functions</b>	
MA: A1 P1 D2 R2 M3 L2	
PA: U1 C2 H1 W1 E2	SA: S1 P2 B1 R3-4
<b>Context</b>	
EC: L4 C02,09	TC: A1 I1
SS: 10	SC: 10 (vy)
LMS: NA (99%SE)	ASIC: 0125

**5000-H POULTRY FARMER, MEAT PRODUCTION  
Chicken Meat Producer; Unit Manager,  
Poultry Meat Production**

Directs, supervises and performs a variety of farming operations to raise chickens, turkeys, ducks or other poultry for meat.

Maintains a high standard of health and productivity in poultry reared for meat production by supplying feed and water, protection from the elements, and comfortable temperature, ventilation and lighting conditions. Organises and participates in husbandry practices, such as vaccinations, control of internal and external parasites and checking for disease. Cleans and disinfects poultry houses and prepares them for the placement of day-old stock. Supervises the catching and loading of poultry ready for slaughter. Seeks professional advice when necessary. Negotiates contracts with marketing organisations. Supervises and participates in the weighing and recording of bird bodyweights and other performance data to determine the slaughter dates of stock, for research purposes and to monitor the effectiveness of feeding programs and quality of breeding stock.

May attend seminars, field days, shows and markets. May exhibit produce. May specialise in raising a particular type of poultry or negotiate contract to supply poultry meat as required and be designated accordingly.

Poultry Farmer, Gamebirds

Contract Grower, Poultry Meat Production

<b>Job Content Factors</b>	
<b>Workers</b>	
FP: GE10-12y PSP2-4y (Adip) / (T)	IP: E0-2y
or FP: GE NFR	IP: T4y
HC: REC	RQ: V1
<b>Materials</b>	
SM: D1 P2 T2	EQ: S1 N1 M1
<b>Functions</b>	
MA: A1 P1 D2 R2 M3 L2	
PA: U1 C2 H1 W1 E2	SA: S1 P2 B1 R3-4
<b>Context</b>	
EC: L4 C02,09	TC: A1 I1
SS: 10	SC: 10 (vy)
LMS: NA (99%SE)	ASIC: 0124

**5000-I LIVESTOCK BREEDER  
Breeding Stock Producer; Store Breeder;  
Stud Farmer**

Plans, supervises and performs a variety of farming operations to breed thoroughbred, standardbred and other breeds of horses, sheep, cattle, pigs etc.

Studies bloodlines or physical appearance and performance characteristics of livestock as appropriate to determine mating combinations. Arranges purchase of desired bloodstock. Mates females with selected males. Supervises the feeding, watering and grooming of stock. Treats minor injuries and illnesses or seeks veterinary advice. Assists stock during parturition. Records breeding, dietary and other stud information.

May manage stud on behalf of stud owner and be designated accordingly.

Stud Manager; Stud Master

May specialise in breeding a particular species of animal and be designated accordingly, e.g.

Commercial Beef Breeder      Goat Breeder  
Rabbit Breeder                  Pig Breeder  
Stud Sheep Breeder  
Horse Breeder; Horse Farmer

#### Job Content Factors

##### Workers

FP: GE10-12y PSP2-4y (Adip) / (T)      IP: E0-2y  
or FP: GE NFR                                  IP: T4y  
HC: RIC    RQ: L1 V1

##### Materials

SM: D1 P1 T2                                  EQ: S2 N2 M1 V2

##### Functions

MA: I1 A1 P1 D1 R2 M3 L2  
PA: U1 C2 H1 S2 W1 B2 E3                  SA: S1 P1 B1 R3-4

##### Context

EC: L4 C09                                  TC: A1 I1  
SS: NA    SC: NA

LMS: NA (99%SE)

ASIC: 0196

### 5000-J CEREAL GRAIN AND OILSEED GROWER

Directs, supervises and performs farming operations to grow one or more cereal grain, oilseed or protein crops.

Makes decisions regarding land use and crop rotation to ensure highest yield. Selects and buys type and quantity of seed to be planted, taking into consideration local growing conditions and market demand. Seeks professional advice when necessary. Applies weedicides to control or eliminate weed competition. Applies fungicides and insecticides to seed for sale or own use. Irrigates soil and maintains irrigation system. Operates farm machinery to plough, disc, fertilise, plant and harvest grain. Harvests crop, considering ripeness of grain and weather conditions. Sells or stores grain for future use.

May hire and train farm workers. May specialise in production of winter cereals such as wheat, which are mainly for human consumption, or in production of coarse grain grown in the summer and used mainly for animal feed. May specialise in producing a particular type of crop and be designated accordingly, e.g.

Barley Grower                      Canary Seed Grower  
Cereal Crop Grower              Grain Sorghum Grower  
Linseed Grower                    Maize Grower  
Millet Grower                      Oats Grower  
Oilseed Grower                    Panicum Seed Grower  
Rapeseed Grower                  Rice Grower  
Rye Grower                          Safflower Grower  
Soybean Grower                    Sunflower Grower  
Wheat Grower

May attend seminars, field days, shows and markets. May exhibit produce. May manage farm on behalf of farm owner and be designated accordingly.

Farm Manager, Cereal Grain, Oilseed and/or Protein Crop

May specialise in growing new strains of seed for sale commercially and be designated accordingly.

Seed Farmer

#### Job Content Factors

##### Workers

FP: GE10-12y PSP2-4y (Adip) / (T)      IP: E0-2y  
or FP: GE NFR                                  IP: T4y  
HC: RIE    RQ: L1 S2 V1

##### Materials

SM: D2 P2 T1                                  EQ: S1 N1 M1 V1

##### Functions

MA: A1 P1 D2 R2 M3 L2  
PA: U1 C1 H1 W1 E4                      SA: S1 P2 B1 R4

#### Context

EC: L4 C02,09                                  TC: A1 I1 T1  
SS: 10    SC: 10 (vy)

LMS: 5500 (99%SE)

ASIC: 0181

### 5000-K SUGAR CANE GROWER Cane Farmer (Sugar)

Directs, supervises and performs farming operations to grow sugar cane.

Selects and buys type and quantity of cane to be planted, considering local growing conditions and market demand. Seeks professional advice when necessary. Operates farm machinery to cultivate soil. Plants cane stalks and fertilises soil. Controls weeds by hand chipping, mechanical cultivation, or spraying. Conducts program of fertiliser application. Determines harvest timing in consultation with mill management. Burns crop immediately prior to harvest to remove leaves, weeds and other extraneous matter which can impede harvesting and milling operations. Supervises harvest. If ratoon crop is to be produced, stubble shaves, cultivates and fertilises field to encourage regrowth from stools.

May hire and train farm workers. May attend seminars, field days, shows and markets. May exhibit produce. May operate mechanical harvester or bin haul-out tractor. May manage farm on behalf of farm owner and be designated accordingly.

Farm Manager, Sugar Cane

#### Job Content Factors

##### Workers

FP: GE10-12y PSP2-4y(PPC) / (Adip)      IP: T2-4y  
or FP: GE NFR                                  IP:  
HC: RIE    RQ: L1 V1

##### Materials

SM: D2 P1 T1                                  EQ: S2 N1 M1 V2

##### Functions

MA: A2 P1 D2 R3 M3 L2  
PA: U1 C1 H1 W1 E3                      SA: S1 P2 M1 R3-4

##### Context

EC: L2 C02,09                                  TC: A1 I1 T2  
SS: NA    SC: NA

LMS: 1100 (99%SE)

ASIC: 0191

### 5000-L TOBACCO GROWER Tobacco Farmer

Directs, supervises and performs farming operations to grow tobacco.

Selects type and quantity of tobacco seed to be planted, considering local growing conditions and market demand. Hires and trains farm workers. Seeks professional advice from appropriate agricultural bodies when necessary. Plants tobacco seed in seedbeds. Cultivates tobacco seedlings. Transplants seedlings in paddocks using tractor-drawn planters. Conducts program of spraying crop as protection against insects, blue mould and any other plant disease which may occur during the growing period. Breaks top off tobacco plants either by hand or using a mechanical topping device. Sprays desuckering oils or malic hydracide on top of plant to retard sucker growth. Harvests tobacco leaves by hand using a tricrop or by mechanical devices. Places tobacco leaves in racks for curing in a bulk curing barn. Ensures correct movement of air and moisture through the tobacco leaves during a period of curing either manually or by automatic control. Observes moisture content and colour of leaves, and adjusts and ensures correct temperature and moisture levels to regulate drying and colouring of leaves until curing is completed. Turns off heating devices, ventilates and adds moisture to bulk curing unit to render leaves pliable for baling. Bales tobacco in accordance with grade schedule provided by appropriate board. Markets tobacco.

May manage farm on behalf of farm owner and be designated accordingly.

Farm Manager, Tobacco

**Job Content Factors****Workers**

FP: GE10-12y PSP2-4y(PPC) / (Adip) IP: T2-4y

or FP: GE NFR IP:

HC: R1E

RQ: L1 V1

**Materials**

SM: D2 P1 T1

EQ: S1 N1 M1 V1

**Functions**

MA: A1 P1 D2 R3 M3 L2

PA: U1 C1 H1 W1 E3

SA: S1 P2 M1 R3-4

**Context**

EC: L2 C02,09

SS: NA

TC: A1 I1 T2

SC: NA

LMS: 2500 (99%SE)

ASIC: 0193

**5000-M****APIARIST****Apiculturist; Bee Farmer; Bee Keeper**

Operates an apiary for production and sale of honey, pollen, royal jelly, wax and/or Queen bees, and directs and supervises apiary workers.

Purchases and assembles beehives. Purchases bees and necessary supplies. Manages and manipulates colonies to give optimum production. Transports beehives to apiary sites. Inserts frames into hives. Ensures that bees are kept disease-free. Removes honey from honeycombs as required. Sells honey. May negotiate pollination services for vegetable and fruit growers. Re-queens colonies as required. Maintains and repairs equipment.

May specialise in Queen breeding.

**Job Content Factors****Workers**

FP: GE10y IP: T4y

or FP: GE10-12y PSP1-3y(PPC) / (Adip) IP: E2y

HC: RIC

RQ: L1 S2 D1 V1

**Materials**

SM: D2 P2 T1

EQ: S1 N1 M2 V1

**Functions**

MA: A1 P1 D2 R2 M3 L2

PA: U1 C1 H1 W1 B2 E3

SA: A1 S2 P2 B1 R4

**Context**

EC: M1 L2 C02,13

SS: NA

TC: A1

SC: NA

LMS: 1000 (99%SE)

ASIC: 0196

**5000-Z****LIVESTOCK FARMERS AND FIELD CROP GROWERS nec**

This residual group covers livestock farmers, ranchers, graziers, feeders and/or field crop growers not elsewhere classified in Unit Group 5000, e.g.

Buffalo Farmer	Deer Farmer
Hatchery Farmer, Poultry	Hatchery Manager, Poultry
Rabbit Farmer	Cassava Grower
Cotton Grower	Culinary Bean Grower
Ginger Grower	Lucerne Grower
Lupin Grower	Peanut Farmer
Dried Pea Grower; Field Pea Grower	

**5001 FRUIT AND VEGETABLE GROWERS**

This unit group covers occupations concerned with operating farms on which the primary activity is the growing of fruit and vegetable produce including nuts.

**Entry Requirements** no formal requirements, or a trade/para-professional/associate diploma qualification in fruit growing or a related area and up to 2 years' experience.

**Activities include** planning farm work; hiring, training and supervising workers; purchasing seeds and/or young plants, equipment and supplies; preparing land; planting, protecting, pruning, thinning and harvesting crops; fertilising and irrigating farmland; grading, storing, packing and marketing crops; preparing cost, production and other records; and participating in daily work of farm.

**5001-A****FRUIT (PERENNIAL HORTICULTURAL CROP) GROWER**

Directs, supervises and performs farming operations to grow perennial horticultural crops (usually fruit).

Determines crop variety to be grown, according to market conditions. Seeks professional advice when necessary. Negotiates contract with marketing organisations. Purchases plants and nursery stock. Arranges pollination service with bee keepers as required. Operates machines and uses hand tools to mulch and cultivate plant, and fertilise crop. Grafts desired varieties to root stock. Prunes, develops and drains trees, bushes, vines and/or plants to increase yield. Plants compatible ground crops between rows of trees and bushes to control weeds and soil temperature. Controls weeds with cultivation machinery and herbicides. Irrigates soil and maintains irrigation system. Operates mechanical equipment

or hand sprays trees, vines and/or bushes with pesticides and fungicides. Trains vines if grown. Hires and trains farm workers. Maintains equipment. Supervises fruit picking, grading and packing or performs these duties himself/herself. Arranges transport and sale of fruits. Records and analyses production figures. Records expenditure receipts, sales and other data.

May construct wire trellises to support vines and/or fruit. May sun-dry certain varieties of stone and vine fruits. May maintain turf between trees to assist moisture penetration and help conserve moisture. May operate cool or controlled atmosphere storage plants for short, medium or long term storage of fruit. May attend seminars, field days, shows and markets. May exhibit produce. May carefully plan picking operations where they extend over long periods and are not specifically dependant on the ripening of the fruit. May

specialise in growing fruit or in growing a particular type of perennial horticultural crop and be designated accordingly, e.g.

Almond Grower	Apple Grower
Apricot Grower	Avocado Grower
Banana Grower	Berry Fruit Grower
Cashew Nut Grower	Cherry Grower
Chestnut Grower	Chilli Grower
Chive Grower	Citrus Fruit Grower
Coffee Grower	Cumquat Grower
Custard Apple Grower	Fig Grower
Gooseberry Grower	Grapefruit Grower
Hazelnut Grower	Herbs Grower
Hop Farmer	Jobba Grower
Lemon Grower	Lime Grower
Loganberry Grower	Loquat Grower
Macadamia Nut Grower	Mandarin Grower
Mango Grower	Mulberry Grower
Nectarine Grower	Olive Grower
Orange Grower	Passionfruit Grower
Papaw Grower	Peach Grower
Pear Grower	Pecan Nut Grower
Persimmon Grower	Pineapple Grower
Plum Grower	Quince Grower
Raspberry Grower	Vigneron
Walnut Grower	
Kiwi Fruit Grower; Chinese Egg Plant Grower	
Grape Grower; Viticulturist	
Duboisia Grower; Drug Plants Grower	
Currants, Red or Black, Grower	
Orchard Fruit Grower; Orchardist	

May manage farm on behalf of farm owner and be designated accordingly, e.g.

Orchard Manager  
Vineyard Manager

#### Job Content Factors

##### Workers

FP: GE10-12y PSP2-4y (Adip) / (T)	IP: E0-2y
or FP: GE NFR	IP: T4y
HC: RIE	RQ: L1 P1 Q2 V1

##### Materials

SM: D2 P2 T1	EQ: S1 N1 M1 V1
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##### Functions

MA: I1 A1 P1 D2 R2 M3 L2	
PA: U1 C2 H1 S1 W1 B2 E4	SA: S1 P2 B1 R2-4

##### Context

EC: L3 C02,09	TC: A1 S1 I1 T1
SS: 9	SC: 9 (vy)

LMS: 5000 (99%SE)

ASIC: 0136,0134

### 5001-B VEGETABLE (ANNUAL HORTICULTURAL CROP) GROWER

Operates farm, market garden or greenhouse to grow annual horticultural crops (usually vegetables), and directs and supervises activities of workers.

Determines crop and quantity according to seasonal and market conditions. Hires and trains seasonal workers. Seeks professional advice when necessary. Operates farm machinery to cultivate and fertilise soil. Plants seeds and seedlings in fields, using farm machinery and garden tools. Arranges

pollination services with bee keepers as required. Irrigates soil and maintains irrigation system. Thins and weeds crops by hand or using farm machinery. Operates mechanical equipment or hand sprayer to spray and dust crops to combat insects, prevent disease and control weeds. Maintains equipment. Picks, cuts or pulls vegetables by hand or using harvesting machinery. Trims, washes, grades and packs produce by hand or using mechanical equipment. Transports and markets produce.

May plant seeds in greenhouse and regulate temperature, light and humidity of greenhouse. May market as an individual or negotiate contract with marketing organisations. May attend seminars, field days, shows and markets. May exhibit produce. May specialise in growing vegetables or in growing a particular variety of annual horticultural crop and be designated accordingly, e.g.

Aniseed Grower	Artichoke Grower
Asparagus Grower	Beetroot Grower
Broccoli Grower	Brussel Sprout Grower
Cabbage Grower	Cape Gooseberry Grower
Capsicum Grower	Carrot Grower
Cauliflower Grower	Celery Grower
Choko Grower	Cucumber Grower
Egg Plant Grower	Endive Grower
French Bean Grower	Garlic Grower
Gourd Grower	Grama Grower
Green Bean Grower	Green Pea Grower
Horseradish Grower	Leek Grower
Lettuce Grower	Marrow Grower
Melon Grower	Mint Grower
Onion Grower	Parsley Grower
Parsnip Grower	Pea Grower
Potato Grower	Pumpkin Grower
Radish Grower	Rhubarb Grower
Rockmelon Grower	Shallot Grower
Silver Beet Grower	Spinach Grower
Squash Grower	Strawberry Grower
Swede Grower	Sweet Corn Grower
Sweet Potato Grower	Tomato Grower
Turnip Grower	Zucchini Grower
Cantaloupe Grower; Watermelon Grower	
Market Gardener; Olericulturist	

#### Job Content Factors

##### Workers

FP: GE10-12y PSP2-4y (Adip) / (T)	IP: E0-2y
or FP: GE NFR	IP: T4y
HC: RIE	RQ: L1 V1

##### Materials

SM: D2 P2 T1	EQ: S1 N1 M1 V1
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##### Functions

MA: A1 P1 D2 R2 M3 L2	
PA: U1 C1 H1 W1 E4	SA: S1 P2 B1 R4-3

##### Context

EC: L4 C02,09	TC: A1 I1 T1
SS: 9	SC: 9 (vy)

LMS: 12000 (99%SE)

ASIC: 0144,0143,0181

### 5001-Z FRUIT AND VEGETABLE GROWERS nec

This residual group covers horticultural crop growers not elsewhere classified in Unit Group 5001, e.g.

Mushroom Grower

## 5002 APPRENTICE FARMING OCCUPATIONS

This unit group covers apprentice occupations in farming.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

**5002-A FARM APPRENTICE**

Receives instruction and training in the trade of farming.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May receive instruction and training in a particular area of farming and be designated accordingly, e.g.

Apprentice, Fruit Growing

**Job Content Factors**

**Workers**

FP: GE10y

HC: RIC

IP:

RQ: V1

**Materials**

SM: D1 P2 T1

EQ: S2 N1 W1

**Functions**

MA: I2 P2 D3 R3 M3 L2

PA: P1 U1 H1 W1 B2 E2

SA: S2

**Context**

EC: M2 L2

SS: 1

TC: A1 I2

SC: 1 (vy)

LMS: NA (0 %SE)

ASIC: 01

**5009 OTHER FARMERS AND STOCKOWNERS**

This residual unit group covers farmers and stockowners not elsewhere classified in Minor Group 500.

**Activities include** planning farm work; hiring, training and supervising workers; purchase and selection of equipment and supplies; preparing and maintaining cost, production and other records; and participating in the daily work of the farm.

**5009-A TRAINEE FARM MANAGER  
Jackaroo/Jillaroo (Trainee Manager)**

Assists station owner or manager with the operation of a sheep and/or cattle station in his/her capacity as a trainee farm manager or overseer.

Performs tasks of varying complexity depending on the level of experience and ability in the running of a sheep or cattle station, and is involved in the management decision-making process. Inspects stock, fences and water points, and cleans troughs during mill runs. Checks health and nutrition of livestock. Performs all husbandry activities and routine station maintenance, including mending fences, fixing windmills, and vehicle repairs and maintenance.

**Materials**

SM: D1 P2 T1

EQ: S1 N1 M2

**Functions**

MA: D3 R3 M3 L3

PA: U1 C2 H1 S2 W1 B2 E3

SA: S1

**Context**

EC: L4 C02,09

SS: 3

TC: A1 I1

SC: 4 (2 y)

LMS: 5000 (0 %SE)

ASIC: 0184

**5009-Z FARMERS AND STOCKOWNERS nec**

This residual group covers farmers and stockowners not elsewhere classified in Minor Group 500, e.g.

Cat Breeder

Dog Breeder

Turf Farmer

Crocodile Farmer

Snake Farmer

**Job Content Factors**

**Workers**

FP: GE10y

or FP: GE NFR

HC: RIC

IP: T2-4y

IP:

RQ: L1 V1

## MINOR GROUP 501 FARM AND RELATED OCCUPATIONS

Farm and Related Occupations are classified in the following unit groups.

- 5010 Farm Overseers and Related Occupations
- 5011 Sheep Shearers and Wool Pressers
- 5012 Animal Training and Related Occupations
- 5013 Farm Machinery Operators
- 5014 Farm Hands and Assistants
- 5019 Other Farm and Related Occupations

### 5010 FARM OVERSEERS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with supervising and co-ordinating the activities of farm workers under the direction of the farm owner or manager.

**Entry Requirements** 4-5 years' experience and/or an appropriate certificate/associate diploma.

**Activities include** supervising and co-ordinating the activities of workers engaged in planting, cultivating, spraying, irrigating and harvesting crops; breeding, raising and caring for livestock and poultry, and preparing farm produce for marketing.

#### 5010-A OVERSEER, FARM Farm Overseer

Supervises and co-ordinates activities of workers engaged in farming operations under the direction of farm owner or manager.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Discusses operations of farm with farm owner or manager. Allocates duties to workers according to predetermined priorities. Ensures that seeding and harvesting deadlines are met. Organises mustering, branding, tagging and trucking activities.

May perform some or all of the duties of the workers being supervised. May hire casual workers at times of peak seasonal activity. May work on a stud farm and be designated accordingly,

Overseer, Stud Farm

##### Job Content Factors

###### Workers

FP: GE NFR	IP: T6m E5y
or FP: GE10-12y PSP2-4y(PPC) / (Adip)	IP: E4y
HC: RSE	RQ: L1 V1

###### Materials

SM: D2 P1 T2	EQ: S1 M2 V2
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###### Functions

MA: A2 P2 D2 R3 M3 L2	
PA: U2 C2 H2 S2 W2 E3	SA: S1 P2 B1 R2-4

###### Context

EC: L4 C02,09	TC: A1 I1
SS: 6	SC: 8 (vy)

LMS: 10000 (0 %SE)

ASIC: 018

#### 5010-B OVERSEER, SHEARING SHED

Supervises and co-ordinates the activities of workers engaged in sheep shearing operations.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Inspects shearing quarters and shed to ensure readiness for shearing team to be accommodated and to commence work. Consults with station owner or farm manager to rectify problems associated with shearing shed and quarters when necessary. Checks with shearing shed cook to ensure that adequate supplies have been received. Inspects gates and catches on all sheep pens, including counting out pens, to ensure they in working order. Ensures optimum standard of work is maintained and attends to administrative matters, such as signing on workers and keeping up to date records of financial transactions including payment of workers, shearing tallies, wool pressed and wool consignments. Acts as contractor's representative with both wool grower and shearing team.

May also perform duties of 5019-D SHEARING SHED EXPERT. May be a self-employed organiser of a team of shearers and be designated accordingly,  
Shearing Contractor

##### Job Content Factors

###### Workers

FP: GE10y PSP1-3y(PPC)	IP: T6m E5y
HC: RSE	RQ: L1 V1

###### Materials

SM: P1 T1	EQ: S1 N1 M2
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###### Functions

MA: P2 D2 R3 M3 L2	
PA: U1 C2 H2 S2 W2 B2 E4	SA: S1 B1 R3-4

<i>Context</i>	
EC: M1 L1 C04.09	TC: S1 I1
SS: 7	SC: 8 (vy)
<hr/>	
LMS: 3000 (99%SE)	ASIC: 0204

5011 SHEEP SHEARERS AND WOOL PRESSERS

This unit group covers occupations concerned with sheep shearing and wool pressing.

**Entry Requirements** 6-12 months' experience.

**Activities include** shearing, fleece preparation, wool pressing and classing.

5011-A SHEARER

Shears wool from sheep using either mechanically driven hand piece or blade shears.

Carefully removes sheep from catching pen and carries it to shearing stand. Selects correct shearing comb to suit type of sheep. Removes belly wool, then removes fleece keeping the comb of the hand piece under the wool and close to the skin avoiding skin cuts to the animal and second cuts to the wool. Removes fleece in one piece for subsequent picking up and handling. Returns shorn sheep to let out pen. Treats severe sheep skin cuts with needle and thread, or tar, as required.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T1y E1y
HC: R	RQ: L2 V1
<hr/>	
<i>Materials</i>	
SM: T1	EQ: S1 M1
<hr/>	
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 H1 W1 B1 E4	SA: L1
<hr/>	
<i>Context</i>	
EC: M1 L1 C09	TC: S1 I1 R1 T1
SS: 4	SC: I1 (5 y)
<hr/>	
LMS: 4000 (99%SE)	ASIC: 0204

5011-B WOOL PRESSER

Compresses wool into a wool pack using either a power driven (mechanical or hydraulic) or a manually operated wool press.

Places wool pack on press, carries wool from bins to wool press, compresses wool into pack, fastens top of pack and removes bale from press. Stencils property name, description of contents and bale number on face and top of bales. Weighs bale and records bale weight description number in shed wool book. Removes bale from press area.

May be required to stack bales and/or load bales onto transporting vehicle. May be employed by wool selling or buying brokers, or by wool processors.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T4w E6m
HC: R	RQ: V1
<hr/>	
<i>Materials</i>	
SM: T1	EQ: S1 M1
<hr/>	
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C1 H1 W1 E4	SA: L1
<hr/>	
<i>Context</i>	
EC: M1 L1 C09	TC: S1 I1 R1
SS: 7	SC: 7 (1 y)
<hr/>	
LMS: 10000 (99%SE)	ASIC: 0204

5012 ANIMAL TRAINING AND RELATED OCCUPATIONS

This unit group covers occupations concerned with training and caring for animals.

**Entry Requirements** 5 years' experience in some cases, and a basic vocational certificate in the case of farriers (non-apprenticed).

**Activities include** training, breaking-in, feeding, exercising and caring for animals, and shoeing horses.

5012-A ANIMAL TRAINER

Directs, supervises and performs activities to train animals such as racing horses and dogs, guide dogs etc.

Purchases equipment and supplies. Seeks professional advice if necessary. Hires and trains workers. Supervises bridling and saddling of race horses, or the harnessing and hitching of harness-racing horses to sulkies. Plans and supervises training schedule. Feeds, grooms and exercises animals, or supervises

other workers engaged in these activities. Examines and treats animals for minor illnesses or injuries. Nominates horses/dogs at registered race meetings.

May specialise in training standardbred or thoroughbred horses and be designated accordingly, e.g.

Horse Trainer, Standardbred

Horse Trainer, Thoroughbred

May specialise in training dogs or other animals and be designated accordingly, e.g.

Dog Trainer, Greyhound Dog Trainer, Obedience

Lion Tamer

#### Job Content Factors

##### Workers

FP: GE10y

HC: REC

IP: T2y E5y

RQ: L1 D2 V1

##### Materials

SM: D2 P1 T1

EQ: S1 N1

##### Functions

MA: P1 D2 R2 M3 L2

PA: U1 C1 S2 W1 B1 E3

SA: L1 M1 R3-4

##### Context

EC: L4

SS: 2

TC: A1 I1

SC: 7 (vy)

LMS: 340 (80%SE)

ASIC: 0196

#### 5012-B

#### GROOM (HORSE)

##### Stable Hand; Strapper

Feeds, exercises and cares for horses at stables, under the supervision of stud master or horse trainer.

Measures and mixes specified amounts of feed supplements and grains. Feeds and waters horses. Examines horses to detect disease or injury and reports observations to superior. Inspects horse shoes. Administers medication as directed. Grooms horses and trims manes and tails with scissors. Harnesses and leads horses or operates mechanical exercise equipment to exercise horses. Cleans stables, yards and horse floats. Spreads fresh bedding, straw or shavings in stalls. Ensures adequate security of charges in accommodation provided.

May be required to ride horse for exercise purposes. May specialise in stud duties and be designated accordingly,

Stud Groom

Grooming duties performed on beef, dairy cattle or sheep are described under 5014-A FARM/STATION HAND, LIVESTOCK AND/OR FIELD CROPS.

#### Job Content Factors

##### Workers

FP: GE NFR

HC: RC

IP: T3-6m

RQ: V1

##### Materials

SM: T1

EQ: N1

##### Functions

MA: D3 R4 M3 L3

PA: U1 C2 H1 W1 E3

SA: S1

##### Context

EC: L3

SS: 2

TC: A1 I1 R2

SC: 7 (vy)

LMS: 700 (0 %SE)

ASIC: 0196

#### 5012-C

#### HORSE BREAKER

Breaks horses for riding or harness-racing.

Gains confidence of charges by familiarisation. Places bridle collar and harness on draft horse and bit in mouth. Teams horse to be broken with older horse. Harnesses horses to vehicle and leads animal using reins. Bridles saddle horse, places bit in mouth, fits saddle blanket in place and saddles horse. Accustoms horse to reins, using long reins. Lies and sits on horse's back in stall or corral and rides horse to accustom animal to rider. Bridles harness-racing horse, inserts bit, leads animal, hitches it to sulky and teaches animal to pull sulky. Performs various operations described, above, in progressive stages and in degree required to accustom horse to equipment.

May be concerned with breaking a particular horse and be designated accordingly, e.g.

Horse Breaker, Harness-Racing

Horse Breaker, Saddle-Racing

#### Job Content Factors

##### Workers

FP: GE NFR

HC: R

IP: T2y E5y

RQ: Q1 V1

##### Materials

SM: I1 T1

EQ: N1

##### Functions

MA: P2 D2 R3 L3

PA: U1 C1 W1 B1 E4

SA: A1

##### Context

EC: M2 L2 C13

SS: 2

TC: A1 S1 R2

SC: 7 (vy)

LMS: 100 (99%SE)

ASIC: 0196

#### 5012-D

#### FARRIER (NON-APPRENTICED)

Shapes hooves, and fits and nails horseshoes to horse hooves.

Consults with owner or trainer to determine type of shoe desired. Cuts clinches holding shoe onto hoof and pulls off worn or defective shoe. Examines hoof to assess its general condition. Trims and shapes hoof with pincers and rasp. Selects type and size of shoe. Positions shoe against hoof to determine amount of shaping required. Operates welding equipment or propane torch, or fires forge to heat shoe to required temperature. Holds shoe with pincers, and positions shoe on anvil. Hammers shoe to size. Positions shoe on hoof. Trims hoof flush with shoe using rasp.

#### Related Occupation

Occupation 6031-B : Master Farrier (Apprenticed)

#### Job Content Factors

##### Workers

FP: GE10-12y PSP6-12m(B)

HC: RIE

IP: T2-3y

RQ: Q2 D2 V1

##### Materials

SM: D2 P2 T1

EQ: P2 S1 M2

##### Functions

MA: D2 R3 M3 L3

PA: P2 U3 C2 H3 W2 E3

SA: S2 L3 I2 P3

##### Context

EC: L4 C02,06,23

SS: 4

TC: A2 I1 T2

SC: 7-8 (4 y)

LMS: NA (50%SE)

ASIC: 02,914

### 5013 FARM MACHINERY OPERATORS

This unit group covers occupations concerned with operating farm machinery, such as tractors,

combines, threshing machines, hop-picking machines, cultivators, potato diggers and crop spraying machines.

**Entry Requirements** Year 10 plus 6 months' experience.

**Activities include** making minor repairs to farm machinery and equipment and providing planting, cultivating, fertilising, spraying, harvesting and other operating services.

**5013-A FARM MACHINERY OPERATOR**

Operates tractor drawn or self propelled farm machinery to clear and cultivate land, and plant, treat and harvest crops.

Hitches implements to tractor, drives tractor, and operates controls to plough, fertilise, cultivate, spray and harvest. Adjusts speed of cutters, blowers and conveyors, depth of digging blades, and height of cutting head of harvesting machine. Works hop equipment and delivers grain by truck to delivery point. Services machinery, including oiling and greasing, and makes repairs and modifications where required.

May work on contract basis or specialise in operating a particular type of machine and be designated accordingly, e.g.

- Farm Machinery Contractor
- Cherry Picker Operator
- Combine Harvester Operator
- Cotton Picking Machine Operator

- Fruit Tree Shaker Operator
- Sugar Cane Harvester Operator
- Sugar Cane Haul-out Driver
- Tractor Driver, Pineapple Growing

Job Content Factors			
Workers			
FP: GE10y		IP: T1-6m E6m	
HC: RC		RQ: V1	
Materials			
SM: T1		EQ: S1 N1 M1 V1	
Functions			
MA: D2 R3 L3			
PA: U1 C1 S1 W2 E3		SA: A1	
Context			
EC: M1 L2 C03,09		TC: A1 S1 I1 R2	
SS: NA		SC: NA	
LMS: 2500 (20%SE)		ASIC: 01	

**5014 FARM HANDS AND ASSISTANTS**

This unit group covers farm hands and assistants.

**Entry Requirements** no formal requirement although a heavy vehicle driving licence may be required in some cases.

**Activities include** performing a variety of general duties on livestock, horticultural or field crops farms, or in a shearing shed, apiary or hatchery.

**5014-A FARM/STATION HAND, LIVESTOCK AND/OR FIELD CROPS**

Under supervision, performs any combination of the following duties on a station or farm depending on the type of animals raised and/or the nature of the field crops grown.

Patrols property. Herds animals; inspects for condition and health; feeds by hand or using mechanical feed equipment, and ensures water is continuously available to all stock. Reports to employer regarding condition of stock. Cleans barns, brooders, enclosures, pens, sheds and yards. Maintains and repairs buildings, fences, plant and water systems. Operates farm machinery to plant, cultivate, fertilise and harvest field crops for use as stockfeed or for marketing. Drives spraying machinery to spray and destroy weeds between crop rows. Irrigates soil and maintains irrigation system. Implements a breeding program for livestock determined by farmer or farm manager. Carries out artificial insemination if trained, otherwise arranges services of a trained technician. Maintains breeding and other records as appropriate. Assists with various husbandry activities including mustering, droving, inoculating (or adding vaccine to water), dehorning, branding, castrating, drenching, dipping, tagging, shearing, ear notching, teeth clipping, tail docking, trimming beaks and wings, and collecting and packaging eggs,

as appropriate. Mixes and administers animal health remedies. Loads animals and/or field crop into transporters for marketing. Drives trucks as required.

May drive livestock to market or sale yards. May perform grooming duties on beef, dairy cattle or sheep stud farm when animals are being exhibited at shows. Works on a station or farm raising a particular type of combination of livestock or on a stud farm, field crop farm or mixed produce farm, usually performing specialist duties related to the nature of the establishment, and may be designated accordingly, e.g.

- Farm Hand, Beef Cattle Farm
- Farm Hand, Dairy Farm
- Farm Hand, Goat Farm
- Farm Hand, Horse Farm
- Farm Hand, Mixed Livestock Farm
- Farm Hand, Pig Farm
- Station Hand, Sheep
- Stud Hand
- Farm Hand, Field Crop Growing
- Farm Hand, Sugar Cane Growing
- Farm Hand, Tobacco Growing
- Farm Hand, Mixed Produce
- Farm Hand, Cattle/Wheat
- Farm Hand, Wheat/Sheep
- Farm Hand, Poultry Farm (Meat Production)
- Farm Hand, Poultry Farm (Egg Production)

May work with livestock on very large property and be designated accordingly.

Stockman/woman; Jackaroo/Jillaroo (Farm Hand)

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1-6m
HC: RC	RQ: L1 V1
<i>Materials</i>	
SM: T1	EQ: S1 N1 M1 V1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 U1 C1 H1 S2 W1 B2 E4	SA: A2 S1
<i>Context</i>	
EC: L4 C02.09	TC: A1 I1 R2
SS: 3	SC: 4 (2 y)
LMS: 10000 (0 %SE)	ASIC: 018,012

### 5014-B FARM HAND, FRUIT AND VEGETABLES (HORTICULTURAL CROPS)

Assists horticultural crop grower to plant, cultivate and harvest fruit and vegetable crops, performing any combination of the following duties.

Operates farm machinery to plant, cultivate, fertilise, spray and harvest fruit and vegetables. Digs holes using tractor operated auger to plant fruit trees. Plants seeds, seedlings, roots, bulbs, vines and other plants using garden tools or farm machinery. Thins, weeds and hoes row crops. Cuts grass around trees and vines. Irrigates land to provide moisture for crop growth, using irrigation method appropriate to crop or locality. Sets poles in ground and strings them with wire or twine for climbing vegetables or for protection of plants. Prunes plants to promote growth. Ringbarks trees. Culls immature fruit to prevent breaking of branches due to excess weight and to increase quality of remaining fruit. Sprays trees, vines and other plants with chemicals to control insects, fungus growth and disease. Harvests, trims, grades, sorts, bunches and packs produce in containers. Clears and burns off areas. Constructs fire breaks and fights fires as required.

May service and make minor repairs to machinery and buildings. May drive truck to transport produce to processors or market. May specialise in working with certain type of produce and be designated accordingly, e.g.

Farm Hand, Apple Growing  
Farm Hand, Citrus Fruit Growing  
Farm Hand, Grape Growing  
Farm Hand, Potato Growing  
Farm Hand, Tomato Growing  
Market Garden Worker  
Orchard Hand

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1-6m
HC: RC	RQ: L1 V1
<i>Materials</i>	
SM: T1	EQ: S1 N1 M1 V1
<i>Functions</i>	
MA: D3 R4 L3	
PA: P1 U1 C1 H1 W1 B1 E3	SA: S1
<i>Context</i>	
EC: L4 C02.09,12	TC: A1 S2 I1 R2
SS: 3	SC: 4 (2 y)
LMS: 10000 (0 %SE)	ASIC: 0136.014.0181

### 5014-C SHEARING SHED HAND Rouseabout; Shed Hand

Under supervision, carries out the following duties associated with sheep movement and wool clip preparation in a shearing shed.

Pens up sheep ready for shearing, controls flow of sheep throughout shearing, and keeps flocks or mobs separate during shearing process. Picks up fleece after shearers has

shorn it from the sheep and carries fleece to wool skirting table. Under direction of wool classer, removes inferior fleece wool, ribs and stains from the fleece. Presents wool to wool classer by rolling fleece evenly from rump to neck so that it lies flat on the wool skirting table and the shoulder wool is exposed. Separates wools skirted off the main fleece into best and poorer skirtings. Sweeps up after shearers finishes each sheep.

May assist wool presser by carrying wools to the wool press, branding bales and sweeping up. May specialise in separating wools skirted off main fleece into best and poorer skirtings and be designated accordingly.

Piece Picker

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1m
HC: R	RQ: V1
<i>Materials</i>	
SM: P1 T1	EQ: N1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 H1 W1 E3	SA: S1
<i>Context</i>	
EC: M1 L4 C06	TC: S1 I1 R1
SS: 5	SC: 5 (vy)
LMS: 15000 (50%SE)	ASIC: 0204

### 5014-D APIARY ASSISTANT Bee Keeper's Assistant

Assists apiarist with operation of an apiary.

Assembles and repairs beekeeping equipment. Transports hives and equipment to and from field apiaries. Assists in disease control and apiary management. Removes honey supers from hives and extracts honey and beeswax. Processes honey and beeswax for disposal to honey packers or consumers. Maintains workshop, honey extraction plant and beekeeping appliances. Carries out other duties as required.

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T3-6m
HC: RC	RQ: L2 D1 V1
<i>Materials</i>	
SM: P1 T1	EQ: S1 N1 M1 V2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 H1 W1 E3	SA: S1
<i>Context</i>	
EC: L4 C13	TC: A1 I1
SS: NA	SC: NA
LMS: 800 (0 %SE)	ASIC: 0196

### 5014-E HATCHERY ASSISTANT

Attends to eggs and chicks in hatchery, performing any combination of the following duties.

Inspects eggs to detect air cell size, blood clots or other indicated defects that make them unfit for human consumption or unsuitable for hatching. Loads crates of graded eggs from refrigerator unit into truck. Drives truck to transport eggs to hatchery and unloads eggs from truck. Operates vacuum lift to transfer eggs between crates, incubator trays and hatchery trays. Places trays in setting incubator and hatching incubator for specified duration. Replaces defective indicator lights on incubators. Removes trays of newborn chicks from incubator. Culls chicks. Dubs (decombs) chicks, using small scissors. Trims beaks, using debeaking machine, to prevent chicks from injuring one another. Injects chicks with vaccine to prevent disease. Places chicks in cartons for shipping.

May specialise in determining sex of baby chicks and be designated accordingly.

Chicken Sexer

Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T3-6m
HC: RC	RQ: L1 V1
<i>Materials</i>	
SM: P1 T1	EQ: S1 N1 M2 V1

<i>Functions</i>	
MA: D3 R4 L3	SA: S1
PA: U1 C1 H1 W1 E3	
<i>Context</i>	
EC: L1 C02,09	TC: A1 I1 R2
SS: NA	SC: NA
LMS: 800 (0 %SE)	ASIC: 012

5019 OTHER FARM AND RELATED OCCUPATIONS

This residual unit group covers farming and related occupations not elsewhere classified in Minor Group 501.

**Activities include** inseminating female livestock with male semen; advising chicken meat producers and sugar cane growers on management procedures; and inspecting, maintaining and repairing shearing equipment in a shearing shed.

5019-A ARTIFICIAL INSEMINATION  
TECHNICIAN  
Artificial Breeding Technician; Artificial  
Insemination Operator; Artificial Inseminator  
(Farm Animals)

Inseminates female livestock with male semen to fertilise them, either on farm or commercially.

Selects pre-packaged deep frozen semen from refrigerated storage container according to nomination of farmer. Prepares female by cleaning vulva. Places semen dose into breeding syringe and encases this in protective sheath. Dons insemination glove, inserts syringe into cervix of female through the vagina and depresses syringe plunger to inject semen. Hygienically disposes of semen package, protective sheath and insemination glove. Records mating details on sales docket on breeding chart.

May attend to a specific species of animal only and be designated accordingly, e.g.  
Artificial Insemination Operator, Cattle

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP2w(B)	IP: T1-3m E6-12m
HC: RC	RQ: L2 S1 V1
<i>Materials</i>	
SM: D1 P1 T1	EQ: P1 N1
<i>Functions</i>	
MA: D2 R3 M3 L2	SA: S1
PA: U1 C2 H1 W1 E3	
<i>Context</i>	
EC: M1 L4	TC: A1 I2 R2
SS: NA	SC: NA
LMS: 500 (70%SE)	ASIC: 018,019

5019-B SERVICEMAN/WOMAN, CHICKEN  
MEAT

Services poultry farmers contracted to grow chicken meat for poultry processing companies.

Advises chicken meat producers on poultry husbandry and management procedures required to achieve optimum health, growth and feed efficiency from the poultry stock and feed supplied by his/her company. Solves production problems and arranges for specialist advice where necessary. Arranges supply of necessary drugs and vaccines. Collects and collates performance data from all growers for research purposes and

to monitor effectiveness of feeding and breeding programs. Determines and advises producers of the slaughter and placement dates for poultry stock.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP2-3y(Adip)	IP: E5y
HC: RIC	RQ: D1 V1
<i>Materials</i>	
SM: D1 P1	EQ:
<i>Functions</i>	
MA: A1 P1 D2 R2 M2 L1	SA: L1 P1
PA: S1 W2 E1	
<i>Context</i>	
EC: T1 L1	TC: A1
SS: NA	SC: NA
LMS: 500 (30%SE)	ASIC: 211

5019-C SUGAR CANE INSPECTOR  
Cane Inspector (Sugar); Sugar Cane Field  
Inspector

Inspects and advises cane growers on variety and quantity of sugar cane to be grown.

Liaises with growers or harvesting contractor to decide upon sections to be harvested. Inspects crop to detect diseases or any other irregularities and advises supervisor accordingly. Advises growers on types of cane suited to area in accordance with mill requirements. Maintains survey records of cane farmers in mill area, and forwards data to chief cane inspector. Acts as adviser to the farmer on any problems concerned with the harvest and acts as general liaison between the mill and the farmer providing advice on high trash levels and any other problems caused with harvesting techniques.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP1y(PPC)	IP: E5y
HC: RSC	RQ: D2 V1
<i>Materials</i>	
SM: D1 P1	EQ:
<i>Functions</i>	
MA: A1 P1 D2 R2 M3 L1	SA: L1 P1
PA: S1 W2 E1	
<i>Context</i>	
EC: T1 L3	TC: A1
SS: NA	SC: NA
LMS: 200 (0 %SE)	ASIC: 217

5019-D

SHEARING SHED EXPERT

Expert, Sheep Shearing Machinery

Inspects all shearing equipment prior to commencement of shearing to ensure it is in a serviceable condition, and maintains and repairs all sheep shearing machinery during shearing.

Inspects all equipment including handpieces, downtubes, head gears, drive belts, grinder and motor. Lubricates all equipment prior to use and is responsible for ensuring that spare parts are ordered and on hand when required. Inspects all shearing stands prior to shearing to ensure that each shearer has an oil can, comb brush, numbered comb and cutter tin. Maintains shearing machinery at all times including starting shearing equipment prior to each run, sharpening combs and cutters, and replacing worn emery discs as required. Stores away all equipment at conclusion of shearing and orders replacement parts in readiness for next shearing or crutching at that particular shearing shed.

May also perform duties of 5010-B OVERSEER, SHEARING SHED. May be employed by manufacturing firms or shearing shed builders to install shearing machinery and gear.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE10y PSP6-18m(PPC)	IP: T6m E5y
HC: RSE	RQ: L1 V1
<i>Materials</i>	
SM: P1 T1	EQ: S1 N1 M2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: U1 C2 H2 S2 W2 B2 E4	SA: S1 B1 R3-4
<i>Context</i>	
EC: M1 L1 C04,09	TC: S1 I1
SS: NA	SC: NA
LMS: 500 (99%SE)	ASIC: 0204

5019-E

ANIMAL ATTENDANT

Feeds, waters and cares for animals and birds in restricted environments such as zoos and circuses, performing any combination of the following duties.

Observes animals and birds which are accommodated in restricted environments for the purpose of exhibiting them, or during temporary separation from their owners, listens for their distress calls and handles them to detect illness or injury. Treats minor injuries and reports serious conditions to supervisor. Inspects animals' cages and locks to reduce possibility of animals' escape, and reports any unsatisfactory conditions. Dusts and sprays insecticides on animals and birds to control insect pests, or immerses them in insecticide baths. Cleans and disinfects cages and enclosures. Transfers animals from one enclosure to another by leading or carrying them, or by opening and closing doors between cages. Transports feed, such as baled hay, meat and ground grain to feeding area, using light delivery truck. Feeds specified food rations to animals and birds. Bathes and grooms animals. Answers visitors' questions and cautions those who take unnecessary risk. Tends ground and cuts grass in work area. Reports breeding data to superior for record purposes.

May attend to a specific type of animal and be designated accordingly, e.g.  
Kennelman/maid

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE10y	IP: T1y E0-1y
HC: RC	RQ: L1 Q1 D2 V1 A1
<i>Materials</i>	
SM: D2 P1 T1	EQ: S2 N1 V1 W2
<i>Functions</i>	
MA: D3 R2 M3 L3	
PA: U1 H1 W1 B2 E3	SA: L1 I1
<i>Context</i>	
EC: L3 C02,13	TC: A1 I1 R2
SS: 3	SC: 6 (5 y)
LMS: 1000 (0 %SE)	ASIC: 913

5019-Z

FARM AND RELATED OCCUPATIONS

nec

This residual group covers farm and related occupations not elsewhere classified in Minor Group 501, e.g.  
Contractor, Crutching Contractor, Foot-rotting  
Contractor, Drenching Contractor, Backfat Testing  
Contractor, Mulesing Crop Marker  
Seed Cleaner Seed Pickler  
Contractor, Pregnancy Testing (Farm Animals)

## MINOR GROUP 502

### AMENITY HORTICULTURAL OCCUPATIONS

Amenity Horticultural Occupations are classified in the following unit groups.

- 5020 Supervisors, Amenity Horticulture
- 5021 Gardeners and Nursery Men/Women
- 5022 Apprentice Amenity Horticulture Trade Occupations
- 5029 Other Amenity Horticultural Occupations

#### 5020 SUPERVISORS, AMENITY HORTICULTURE

This unit group covers occupations concerned with supervising activities and workers in amenity horticulture.

**Entry Requirements** a trade qualification or, in some cases, an associate diploma/diploma in an appropriate area of amenity horticulture, plus 2-5 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN; advising on suitability of particular plants for various locations and purposes; specialising in the propagation of plants; and arranging activities so that grounds may be used at programmed times.

#### 5020-A SUPERVISOR, PLANT NURSERY Nursery Foreman/woman; Senior Plant Propagator

Supervises and co-ordinates related activities and workers in the operation of a plant nursery.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Specialises in the propagation of plants.

May advise customers on suitability of particular plants for various locations and purposes, where a retail sales store is attached to the nursery.

##### Job Content Factors

###### Workers

FP: GE10-12y PSP3-4y(Dip) / (T)	IP: T1y E3y
or FP: GE NFR	IP: T1y E5y
HC: SRC	RQ: U2 D2 V1

###### Materials

SM: D2 P1 T2	EQ: N1
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###### Functions

MA: P2 D2 R3 M3 L2	
PA: H1 S1 W1 E2	SA: S1 I1 B1 R3-4

###### Context

EC: L3 C08,02	TC: A1 I1
SS: 5	SC: 7 (5 y)

LMS: 500 (0 %SE)

ASIC: 0195

#### 5020-B SUPERVISOR, PARKS AND GARDENS Head Gardener

Supervises activities and workers in a wide variety of gardening duties.

Performs duties as described under the Master Title SUPERVISOR/FOREMAN/WOMAN. Is usually qualified to work as a gardener in public gardens.

May be required to be a licensed Weeds Control Supervisor. May plan and organise the maintenance of parks and gardens.

##### Job Content Factors

###### Workers

FP: GE10-12y PSP3-4y(Dip) / (T)	IP: T1y E2-5y
HC: SCR	RQ: L2 S2 U2 V1

###### Materials

SM: D2 P1 T2	EQ: S2 N1 W2
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###### Functions

MA: P1 D2 R3 M3 L2	
PA: U1 H2 S2 W1 E2	SA: S1 B1 R4-3

###### Context

EC: L2 C02,08	TC: A1 I1
SS: 4	SC: 7 (5 y)

LMS: NA (0 %SE)

ASIC: 9141

#### 5020-C HEAD GROUNDSMAN/WOMAN Curator of Grounds

Supervises activities in the maintenance of major sporting grounds which include large area lawn playing arenas and turf pitches.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Arranges activities so that the grounds can be used at programmed times.

May be designated according to use made of ground, e.g.  
Curator, Oval/Racecourse Head Greenkeeper  
Superintendent, Golf Course

**Job Content Factors****Workers**

FP: GE10y PSP4y(T)

IP: T1y E3-5y

HC: SCR

RQ: L2 U2 V1 A2

**Materials**

SM: D2 P1 T2

EQ: N2 M2 W2

**Functions**

MA: A2 P1 D2 R3 M3 L2

PA: U1 H2 S2 W1 E2

SA: S1 B1 R3-4

**Context**

EC: L2 C02

SS: 4

TC: A1 I2 T2

SC: 5 (5 y)

LMS: 250 (0 %SE)

ASIC: 9144

**5020-Z****SUPERVISORS, AMENITY  
HORTICULTURE nec**

This residual group covers supervisory occupations in amenity horticulture not elsewhere classified in Unit Group 5020, e.g. Supervisor, Commercial Flower Growing; Floriculturist Supervisor, Landscaping

**5021 GARDENERS AND NURSERY MEN/WOMEN**

This unit group covers occupations concerned with growing and marketing trees, shrubs and ornamental plants; and tending flowers, shrubs, trees and lawns in public and private gardens.

**Entry Requirements** a trade qualification or, in some cases, an associate diploma/diploma in an appropriate area of amenity horticulture; however Year 9-10 only may be adequate for entry to some occupations in this group.

**Activities include** preparing and sterilising soil, compost and other plant food; planting seeds and bulbs; potting; transplanting; taking and setting cuttings; harvesting and storing bulbs and seeds; adding fertiliser; spraying weedicides; maintaining lawns and greens; repairing damaged turf; and maintaining flower and shrub gardens.

**5021-A NURSERY MAN/WOMAN  
Plant Propagator**

Plants, cultivates and harvests trees, shrubs, ornamental and flowering plants in a plant nursery.

Prepares composts and soils in plots, or fills containers before planting. Selects seeds, bulbs or cuttings and plants them in plots or containers to grow trees, shrubs, flowers and lawns. Keeps records of soil mixtures, plantings, treatments, losses and yields. Controls watering operations. Cultivates and inspects growing of plants. Applies pesticides and fungicides as required. Selects plants and packages them for presentation or delivery. Selects buds and performs budding and grafting activities.

May assist researchers in experiments. May advise customers if a retail sales store is attached to the nursery, or specialise in the retail aspects of plant propagation, and be designated accordingly, e.g.

Plant Information Officer, Nursery Sales

Plant Propagator, Nursery Sales

May specialise in raising pine seedlings and be designated accordingly,

Plant Propagator, Pine Seedlings

**Job Content Factors****Workers**

FP: GE10-12y PSP3-4y(Dip) / (T)

or FP: GE9-10y

HC: RCI

IP:

IP: T4y

RQ: V1

**Materials**

SM: D2 P2 T1

EQ: S1 N1 W1

**Functions**

MA: D3 R3 M3 L3

PA: U1 H1 W1 E3

SA: S1 L2 I2

**Context**

EC: L4 C02,08

SS: 4

TC: A1 I2 R2

SC: 6 (vy)

LMS: 5500 (0 %SE)

ASIC: 0195

**5021-B GARDENER, PUBLIC GARDENS**

Performs general gardening duties in the cultivation of ornamental plants and the maintenance of public parks and gardens.

Prepares new sites and plots by turning over soil, and adding compost, fertilisers and weedicides. Plants and transplants ornamental flowers, shrubs, trees and lawns. Maintains gardens by weeding, thinning, trimming and watering as necessary. Prunes trees and hedges for ornamental effect. Operates mowers and other machinery when required.

May assist with other maintenance work and alter layouts in landscaping. May spray plants with chemicals, keep records and direct the work of assistants.

**Job Content Factors****Workers**

FP: GE11-12y PSP2-3y(Dip) / (Adip)

or FP: GE10y PSP4y(T)

HC: RIC

IP:

IP:

RQ: S2 V1

**Materials**

SM: D2 T1

EQ: S1 N1 M1 W1

**Functions**

MA: P2 D2 R3 M3 L3

PA: U1 C2 H1 W1 E3

SA: A1 S2

**Context**

EC: L2 C02

SS: 3

TC: A1 I1 R2

SC: 6 (7 y)

LMS: 20000 (0 %SE)

ASIC: 9141

**5021-C GROUNDSMAN/WOMAN**

Performs duties involved in the maintenance of large-area lawn sporting grounds and general gardening.

Performs various duties to allow the use of the sporting and recreational grounds at programmed times. Maintains lawns by watering with a sprinkler system, and operates various tractor towed machines. Mows, rolls and levels turf. Aligns,

linemarks and places sports equipment on playing area. Replants, repairs, aerates, fertilises and topdresses lawns. Maintains flowers, shrubs and trees in surrounding gardens.

May be required to maintain buildings, fences and equipment and perform duties in preparation for major events. May advise club committees on state of playing surface. May specialise in the preparation and maintenance of small area, high quality turf surfaces and be designated accordingly, Greenkeeper

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE9-10y HC: R	IP: IP: T4y RQ: V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N1 M1 W1
<b>Functions</b>	
MA: D3 R4 M3 L3 PA: U1 C1 H1 W1 B2 E3	SA: A1 S2 I2
<b>Context</b>	
EC: L2 C02,09 SS: 3	TC: A1 I1 T1 SC: 5 (4 y)
LMS: 5000 (0 %SE)	ASIC: 9144

**5021-D GARDENER, PRIVATE GARDEN**

Performs a variety of duties in the maintenance of an ornamental garden for a private owner or organisation.

Grows plants from seeds and cuttings, and prepares new sites and plots by soil treatment. Plants, repots and transplants flowers, shrubs, lawns and trees for ornamental purposes. Maintains garden by watering, weeding and pruning. Sprays pesticides. Erects and maintains fences and garden structures. Advises owner on technical aspects involving purchases and subcontracting. Mows and edges lawns, and maintains equipment.

May direct the work of assistants or assist subcontractors. May cut flowers for display. May perform maintenance work on buildings.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE9-10y HC: RIS	IP: IP: T1-4y RQ: V1

<b>Materials</b>	
SM: P2 T1	EQ: S2 N1 W1
<b>Functions</b>	
MA: P2 D3 R3 M3 L3 PA: U1 H1 W1 E3	SA: A1 S2 P1 B2 R4
<b>Context</b>	
EC: M1 L2 C02 SS: NA	TC: A1 I2 R2 SC: NA
LMS: 15000 (50%SE)	ASIC: 9364,9400

**5021-E LANDSCAPE GARDENER  
Landscape Horticulturist**

Plans and arranges garden landscapes.

Discusses design proposals with client. Reads plans and lays out the development of an area. Prepares lawn areas by hauling and spreading top soil, using wheelbarrow, shovel and rake or appropriate machinery. Spreads grass seeds or plants sods. Digs holes and trenches for trees, bushes and hedges, and plants flowers and bulbs in garden areas. Installs garden reticulation systems. Mixes and spreads fertilisers to growing soils. Constructs or arranges the building of walls, fences, trellises, pergolas, fountains or ponds. Uses natural materials, such as wood or stone, or manufactured paving materials, to provide garden walkways. Constructs natural sculptures using rocks and boulders. Maintains landscaped garden until established.

May work from plans produced by a landscape architect.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE12y PSP2-3y(Dip) / (Adip) HC: RAS	IP: IP: T6m RQ: L2 U2 V1
<b>Materials</b>	
SM: D2 I2 P2 T1	EQ: S1 N1 M1 V2 W1
<b>Functions</b>	
MA: P1 D2 R3 M3 L2 PA: U1 C2 H1 S2 W1 E4	SA: S1 I1 P1 B2 R4
<b>Context</b>	
EC: M1 L2 SS: NA	TC: A1 I2 SC: NA
LMS: 1000 (50%SE)	ASIC: 4122

**5022 APPRENTICE AMENITY HORTICULTURE TRADE OCCUPATIONS**

This unit group covers apprentice occupations in the field of amenity horticulture.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

**5022-A APPRENTICE NURSERY MAN/WOMAN**

Receives instruction and training in the trade of nursery keeping.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May receive instruction and training in a particular area of nursery keeping and be designated accordingly, e.g.

Apprentice, Fruit and Vegetable Seedling Propagation

**Job Content Factors**

<b>Workers</b>	
FP: GE10y HC: RIC	IP: RQ: V1

<i>Materials</i>	SM: D1 P2 T1	EQ: S2 N1 W1
<i>Functions</i>	MA: I2 P2 D3 R3 M3 L2 PA: P1 U1 H1 W1 E2	SA: S2 L2
<i>Context</i>	EC: L4 SS: 1	TC: A1 I1 SC: 1 (4 y)
LMS: 2000 (0 %SE)		ASIC: 0195

**5022-B APPRENTICE GARDENER**

Receives instruction and training in the trade of gardening.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May receive instruction and training in a particular area of gardening and be designated accordingly, e.g.

- Apprentice, Flower Growing
- Apprentice, Gardens and Parks
- Apprentice, Ornamental Tree, Shrub and Perennial Cultivation
- Apprentice, Rose and/or Fruit Tree Cultivation

<i>Job Content Factors</i>		
<i>Workers</i>	FP: GE10y HC: RIC	IP: RQ: V1
<i>Materials</i>	SM: D1 P2 T1	EQ: S2 N1 W1
<i>Functions</i>	MA: I2 P2 D3 R3 M3 L2 PA: P1 U1 H1 W1 B2 E2	SA: S2
<i>Context</i>	EC: M2 L2 SS: 1	TC: A1 I2 SC: 1 (4 y)
LMS: 2000 (0 %SE)		ASIC: 914

**5022-C APPRENTICE GREENKEEPER**

Receives instruction and training in the trade of greenkeeping.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<i>Job Content Factors</i>		
<i>Workers</i>	FP: GE10y HC: RIC	IP: RQ: V1
<i>Materials</i>	SM: D1 P2 T1	EQ: S1 N1 M2 W1
<i>Functions</i>	MA: I2 P2 D3 R3 M3 L2 PA: U1 C1 H1 S2 W1 E2	SA: S1
<i>Context</i>	EC: L2 C09 SS: 1	TC: A1 I2 T2 SC: 1 (4 y)
LMS: 3000 (0 %SE)		ASIC: 914

**5022-D APPRENTICE LANDSCAPE GARDENER**

Receives instruction and training in the trade of landscape gardening.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<i>Job Content Factors</i>		
<i>Workers</i>	FP: GE10y HC: RIC	IP: RQ: V1
<i>Materials</i>	SM: D1 I2 P2 T1	EQ: S2 N1 M2 W1
<i>Functions</i>	MA: I2 P2 D3 R3 M3 L2 PA: U2 H1 W1 E3	SA: S1 P2
<i>Context</i>	EC: M1 L2 SS: 1	TC: A1 I1 SC: 1 (4 y)
LMS: 3000 (0 %SE)		ASIC: 4122

**5029 OTHER AMENITY HORTICULTURAL OCCUPATIONS**

This residual unit group covers amenity horticultural occupations not elsewhere classified in Minor Group 502.

**Activities include** pruning and treating ornamental trees; operating amenity horticulture machinery; and performing general nursery duties in a plant nursery.

**5029-A TREE ATTENDANT**

Prunes and treats ornamental trees to improve their health and appearance without damaging other trees or structures.

Gains access to tree limbs using ladders or mobile lifting platform and attaches rigging cables as required. Cuts off limbs and shapes the trees as directed using chain-saws, handsaws and pruning shears. Paints protective material over cut surfaces. Scrapes decayed wood from cavities in trees and replaces with plastic material. Sprays and dusts trees and shrubs to control insects and diseases. Fells diseased trees, grubs out stumps and removes all material by truck. Plants trees of all sizes using hand or large mobile equipment. Maintains all equipment and sharpens saws and blades.

May specialise in tree surgery which involves inspecting, diagnosing, advising on and treating trees which are in poor health or dangerous, and be designated accordingly,

Tree Doctor; Arboriculturist; Tree Surgeon

<i>Job Content Factors</i>		
<i>Workers</i>	FP: GE10y HC: R	IP: T2-3y E1y RQ: L1 S1 V1
<i>Materials</i>	SM: T1	EQ: S1 N1 M1 V1
<i>Functions</i>	MA: P2 D2 R3 M3 L3 PA: U1 C1 H1 W1 B1 E4	SA: A1 P1

<i>Context</i>	
EC: M1 L1 C12,09	TC: A1 I2
SS: 3	SC: 3 (vy)
LMS: 500 (20%SE)	ASIC: 9141

**5029-B OPERATOR, AMENITY HORTICULTURE MACHINERY**  
**Machinery Operator, Amenity Horticulture**

Operates machinery that is specialised for use in amenity horticulture.

Drives or transports machines to work site. Positions and operates machine. Feeds and operates static machinery. Checks safety conditions and avoids damage to plants and structures. Performs routine maintenance on the machinery. Performs gardening duties involved with the machine's work, or as directed.

May operate a particular type of machine and be designated accordingly, e.g.

Auto Scythe Operator      Rotary Hoe Operator

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP: T1-3m E1y
HC: R	RQ: L1 V1 A2
<i>Materials</i>	
SM: T1	EQ: S2 N1 M1 V1 W2
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: U1 C1 H1 W1 E2	SA: A1 P1
<i>Context</i>	
EC: M1 L2 C09,02,04	TC: A1 I2 R2
SS: 3	SC: 4 (vy)
LMS: 500 (0 %SE)	ASIC: 9141

**5029-C NURSERY ATTENDANT (HORTICULTURE)**  
**Nursery Assistant (Horticulture); Nursery Hand (Horticulture)**

Performs any combination of the following tasks under supervision of a nursery person in a plant nursery.

Prepares soils using hand tools or machines, and assists in planting. Loads, unloads and fetches equipment and supplies. Tends plants by hand watering and hand weeding. Adjusts mist irrigation systems, shade and ventilation as required. Assists in general cleaning up and maintenance. Prepares and packages plants for sale or transport.

May progress to more complex duties as knowledge increases. May perform special tasks, such as pricking out seedlings.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T1-3m
HC: R	RQ: V1
<i>Materials</i>	
SM: T1	EQ: S1 N1 W1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 H1 S2 W1 E3	SA: S1 I2
<i>Context</i>	
EC: L4 C02	TC: A1 I2 R1
SS: 3	SC: 3 (3 y)
LMS: 1000 (0 %SE)	ASIC: 0195

**5029-Z AMENITY HORTICULTURAL OCCUPATIONS nec**

This residual group covers amenity horticulture occupations not elsewhere classified in Minor Group 502.



## **MAJOR GROUP 51**

### **FISHING AND HUNTING OCCUPATIONS**

Fishing and Hunting Occupations are classified in the following Minor group.

510 Fishing and Hunting Occupations

# 51 FISHING AND HUNTING OCCUPATIONS

## 510 FISHING AND HUNTING OCCUPATIONS

### 5100 MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS

5100-A	Master Fisherman/woman, Trawl Net Vessel
5100-B	Master Fisherman/woman, Danish Seine Vessel
5100-C	Master Fisherman/woman, Purse Seine Vessel
5100-D	Master Fisherman/woman, Gill Net Vessel
5100-E	Master Fisherman/woman, Trolling and Handline Vessel
5100-F	Master Fisherman/woman, Longline and Dropline Vessel
5100-G	Master Fisherman/woman, Tuna Pole and Live Bait Vessel
5100-H	Master Fisherman/woman, Squid Jigging Vessel
5100-I	Abalone Diver (Master Fisherman/woman)
5100-J	Master Fisherman/woman, Pots and Traps Fishing Vessel
5100-K	Master Fisherman/woman, Scallop and Shell Dredging Vessel
5100-Z	Master Fishermen/women, Sea-Going Fishing Vessels nec

### 5101 FISHERMEN/WOMEN, DECKHANDS ON SEA-GOING FISHING VESSELS

5101-A	Fisherman/woman, Sea-Going Net Fishing Vessel
5101-B	Fisherman/woman, Trolling and Handline Vessel
5101-C	Fisherman/woman, Longline and Dropline Vessel
5101-D	Fisherman/woman, Tuna Pole and Live Bait Vessel
5101-E	Fisherman/woman, Squid Jigging Vessel
5101-F	Fisherman/woman, Pots and Traps Fishing Vessel
5101-G	Fisherman/woman, Scallop and Shell Dredging Vessel
5101-H	Fisherman/woman, Abalone Shucker (Sheller)
5101-Z	Fishermen/women, Deckhands on Sea-Going Fishing Vessels nec

### 5102 INLAND WATERS AND ESTUARY FISHING OCCUPATIONS

5102-A	Fisherman/woman, Inland Waters and Estuary Net Fishing Vessel
5102-B	Seine and Gill Net Fisherman/woman
5102-C	Prawn Fisherman/woman
5102-D	Fish Trapper
5102-E	Fisherman/woman, Crab Pots and Dillies
5102-Z	Inland Waters and Estuary Fishing Occupations nec

### 5109 OTHER FISHING AND HUNTING OCCUPATIONS

5109-A	Oyster Grower
5109-B	Oyster Grower's Assistant
5109-C	Fish Farm Worker
5109-D	Shooter/Trapper
5109-Z	Fishing and Hunting Occupations nec

MINOR GROUP 510  
FISHING AND HUNTING OCCUPATIONS

Fishing and Hunting Occupations are classified in the following unit groups.

- 5100 Master Fishermen/women, Sea-Going Fishing Vessels
- 5101 Fishermen/women, Deckhands on Sea-going Fishing Vessels
- 5102 Inland Waters and Estuary Fishing Occupations
- 5109 Other Fishing and Hunting Occupations

5100 MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS

This unit group covers occupations concerned with catching and preserving fish, crustaceans and molluscs with various types of nets, lines, poles, pots, traps at varying depths, assisted by crew members; harvesting shell fish from sea-bed using a towed dredge or rake; diving for abalone from sea-bed.

**Entry Requirements** a basic vocational certificate of proficiency to operate a sea-going vessel, plus 2 years' experience and an appropriate fishing licence.

**Activities include** interviewing and hiring crew members, and assigning duties; plotting course and computing position using aids such as satellite navigation systems, radio direction finding equipment, sextant, compass chronometer and navigation charts and tables; steering vessel and operating radio, radar, sonar, echo sounder and other navigational and fishing aids; monitoring and interpreting weather patterns; obtaining radio weather forecasts; supervising and ensuring safety of vessel and crew; directing fishing operations by employing knowledge of species sought, fishing grounds, seasons and capabilities of vessel and crew; being responsible for overall safety of vessel and crew; directing and assisting crew in fishing operations and sorting, cleaning, preserving, stowing and refrigerating the catch; recording daily activity in ships log; maintaining record of catch; inspecting vessel and gear to ensure proper maintenance and equipping; overseeing repair or replacement of defective items; purchasing supplies and equipment; supervising and assisting in the loading, unloading and storage of supplies, equipment and catch; preserving, processing and/or marketing catch as required; arranging sale of catch; and keeping accounts and other records.

5100-A MASTER FISHERMAN/WOMAN,  
TRAWL NET VESSEL  
Trawler Master

Catches and preserves fish, crustacea and molluscs with trawl net (funnel-shaped net) dragged at varying sea depths, assisted by crew of vessel.

Performs duties as described in the definition for Unit Group 5100 MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS. Attaches an "otter board" or "door" (rectangular, oval or "V" type of wood or steel structure towed ahead of the net and set at an angle of attack to the towing direction) to each side of net's mouth, or wood or metal beam and runners to mouth of net (beam trawl) to hold it open during towing. Fastens trawl warps (towing cables) to net and casts net overboard. Ensures trawl is properly set and at correct depth by observation or electronic recording equipment. Supervises winch operation to pull net on board, and releases catch from end of net into pens and boxes.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment. May undertake search and rescue operations in co-operation with government authorities. May assume control of a fleet of fishing vessels. May be designated,  
Master Fisherman/woman, Fish (Finned) Otter Trawling  
Master Fisherman/woman, Mid-water Trawling  
Master Fisherman/woman, Pair Trawling  
Master Fisherman/woman, Prawn Otter Trawling

Job Content Factor

<b>Workers</b>	
FP: GE10-11y PSP5m(B)	IP: E2y
HC: REI	RQ: S1 Q2 U2 D1 V1 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N1 V1
<b>Functions</b>	
MA: I1 A1 P1 D2 R2 M2 L2	
PA: U1 C1 H1 S2 W1 B1 E4	SA: S1 M2 B1 R3-4

<i>Context</i>	
EC: M1 L2 C08,09,12	TC: S2 I1 R2
SS: V	SC: V
LMS: 100-150 (50 SE)	ASIC: 0432,0433

### 5100-B MASTER FISHERMAN/WOMAN, DANISH SEINE VESSEL

Catches fish with danish seine, assisted by crew of vessel.

Performs duties as described in the definition for Unit Group 5100 MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS. Throws weighted buoy overboard with rope attached, pays out up to one half mile of rope and then shoots the net with the assistance of crew members; then pays out another one half mile of rope while steaming back to buoy. Retrieves buoy and heaves in, using power winch on both warps, monitoring the angle of ropes to check the progress of ropes and net along the sea bottom. Stows coils of rope as the winch heaves in until net is alongside. Net is then hauled on board and the catch emptied into holding bins on deck. Designs and makes new nets. Supervises net repair.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment. May undertake search and rescue operations in co-operation with government authorities. May assume control of a fleet of fishing vessels.

#### Job Content Factor

<i>Workers</i>	
FP: GE10-11y PSP5m(B)	IP: E2y
HC: REI	RQ: S1 Q2 U2 D1 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1 V1
<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M2 L2	
PA: U1 C1 H1 S2 W1 B1 E4	SA: S1 M2 B1 R4
<i>Context</i>	
EC: M1 L2 C08,09,12	TC: S2 I1 R2
SS: V	SC: V
LMS: 100-150 (50%SE)	ASIC: 0433

### 5100-C MASTER FISHERMAN/WOMAN, PURSE SEINE VESSEL

Catches fish with purse seine assisted by crew of vessel.

Performs duties as described in the definition for Unit Group 5100 MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS. Operates parent ship and pays out purse seine (net so constructed that bottom can be pulled together like purse strings), in circle to surround school of fish while crew member operates skiff to hold end of seine in place. Supervises joining of net when boats meet, hooking seine to parent ship and attaching rope to winch. Operates winch to close bottom of seine to prevent fish from escaping and to draw net to vessel. Supervises and assists crew in brailling operations, using suction hose from hydraulic pump or dip net, to lift fish from seine onto boat.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment. May undertake search and rescue operations in co-operation with government authorities. May assume control of a fleet of fishing vessels.

#### Job Content Factor

<i>Workers</i>	
FP: GE10-11y PSP5m(B)	IP: E2y
HC: REI	RQ: S1 Q2 U2 D1 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1 V1
<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M2 L2	
PA: U1 C1 H1 S2 W1 B1 E4	SA: S1 M2 B1 R2-4

<i>Context</i>	
EC: M1 L2 C08,09,12	TC: S2 I1 R2
SS: V	SC: V
LMS: 100-150 (50%SE)	ASIC: 0433

### 5100-D MASTER FISHERMAN/WOMAN, GILL NET VESSEL

Catches fish with gill net assisted by crew of vessel.

Performs duties as described in the definition for Unit Group 5100 MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS. Attaches floats, weights, poles, ropes and cables to gill net (wall of netting in which fish become entangled or are trapped by their gills) using wire and hand tools. Ties nets together to form fleet of nets and attaches anchor, where applicable, and buoy at each end. Lowers net into water by hand or using winch and sets them in position. Hauls net to boat by hand or using winch, and removes fish from nets by hand, using protective gloves. The net may be set either just above the sea bed or anywhere from mid-water to the surface. It may be anchored in position (set net), allowed to move freely according to tide and wind conditions (drift net) or used to encircle schools of pelagic (surface) fish after which they are "frightened" and become enmeshed in the net.

May work alone. May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment. May undertake search and rescue operations in co-operation with government authorities. May assume control of a fleet of fishing vessels. May be designated,

Master Fisherman/woman, Gill Net Vessel, Offshore Draft Fishing

Master Fisherman/woman, Gill Net Vessel, Set and Ring Net Fishing

#### Job Content Factor

<i>Workers</i>	
FP: GE10-11y PSP5m(B)	IP: E2y
HC: REI	RQ: S1 Q2 U2 D1 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1 V1
<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M2 L2	
PA: U1 C1 H1 S2 W1 B1 E4	SA: S1 M2 B1 R4
<i>Context</i>	
EC: M1 L2 C08,09,12	TC: S2 I1 R2
SS: V	SC: V
LMS: 100-150 (50%SE)	ASIC: 0433

### 5100-E MASTER FISHERMAN/WOMAN, TROLLING AND HANDLINE VESSEL

Catches pelagic fish with hook and line trolled behind moving vessel, or with hand-held or buoyed and anchored lines to catch emersal fish.

Performs duties as described in the definition for Unit Group 5100 MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS. Lays out lines and attaches hooks, bait, sinders and various anchors, floats and swivels, dependant on type of fish sought. When trolling, ties lines to poles extending from sides of vessel, operates winch to lower lines into water and operates vessel to troll lines. When handling, puts line in water and holds by hand, or anchors line to bottom and attaches buoy or marker float. Hauls line onto deck by hand or using reel or winch. Hauls fish from water using gaff (long pole with large curved hook at end), if required. Stuns fish with club (if necessary) and removes catch from line by hand. Catches bait if required, using seine or gill net.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment. May undertake search and rescue operations in co-operation with government authorities. May assume control of a fleet of fishing vessels.

**Job Content Factor****Workers**

FP: GE10-11y PSP5m(B)

IP: E2y

HC: REI

RQ: S1 Q2 U2 D1 V1 A2

**Materials**

SM: D2 P2 T1

EQ: S1 N1 V1

**Functions**

MA: I1 A1 P1 D2 R2 M2 L2

PA: U1 C1 H1 S2 W1 B1 E4

SA: S1 M2 B1 R4

**Context**

EC: M1 L2 C08,09,12

TC: S2 I1 R2

SS: V

SC: V

LMS: 100-150 (50%SE)

ASIC: 0433

**5100-F MASTER FISHERMAN/WOMAN, LONGLINE AND DROPLINE VESSEL**

Catches fish with longline and dropline assisted by crew of vessel.

Performs duties as described in the definition for Unit Group 5100 MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS. Attaches buoys, anchors and hooks to longline (long length of line from 100 metres to several kilometres, to which short lengths of line carrying baited hooks are attached every one to two metres) or dropline (similar to longline except anchored at one end and rises to buoy at surface on other end.) The gear is set at bottom, subsurface or surface such that the line maintains a constant depth. Baits hooks, anchors, buoys and sets lines in position by feeding, with winch from drum, or by hand from boxes, over stern. Recovers gear after interval by retrieving float and attaching to winch or hauling by hand. Removes fish from hooks by hand. Stores lines ready for rebaiting and resetting. Catches bait, if required, using seine or gill net.

May work alone. May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment. May undertake search and rescue operations in co-operation with government authorities. May assume control of a fleet of fishing vessels.

**Job Content Factor****Workers**

FP: GE10-11y PSP5m(B)

IP: E2y

HC: REI

RQ: S1 Q2 U2 D1 V1 A2

**Materials**

SM: D2 P2 T1

EQ: S1 N1 V1

**Functions**

MA: I1 A1 P1 D2 R2 M2 L2

PA: U1 C1 H1 S2 W1 B1 E4

SA: S1 M2 B1 R2-4

**Context**

EC: M1 L2 C08,09,12

TC: S2 I1 R2

SS: V

SC: V

LMS: 100-150 (50%SE)

ASIC: 0433

**5100-G MASTER FISHERMAN/WOMAN, TUNA POLE AND LIVE BAIT VESSEL**

Catches pelagic fish, using tuna pole and live bait or lures, assisted by crew of vessel.

Performs duties as described in the definition for Unit Group 5100 MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS. Attracts surface fish to feed by using live bait. Casts tuna line (long pole with line attached, using feather or similar lure, or live bait on a barbless hook) astern as vessel passes slowly through the school. Upon fish striking, heaves on pole to fling fish onto deck. The barbless hook disengages the fish automatically. Catches bait, if required, using seine or dip net.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment. May undertake search and rescue operations in co-operation with government authorities. May assume control of a fleet of fishing vessels. May operate in conjunction with purse seine vessel, holding fish at surface while purse net surrounds them.

**Job Content Factor****Workers**

FP: GE10-11y PSP5m(B)

IP: E2y

HC: REI

RQ: S1 Q2 U2 D1 V1 A2

**Materials**

SM: D2 P2 T1

EQ: S1 N1 V1

**Functions**

MA: I1 A1 P1 D2 R2 M2 L2

PA: U1 C1 H1 S2 W1 B1 E4

SA: S1 M2 B1 R3-4

**Context**

EC: M1 L2 C08,09,12

TC: S2 I1 R2

SS: V

SC: V

LMS: 100-150 (50%SE)

ASIC: 0433

**5100-H MASTER FISHERMAN/WOMAN, SQUID JIGGING VESSEL**

Catches squid using "jigging" hooks assisted by crew of vessel.

Performs duties as described in the definition for Unit Group 5100 MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS. Attaches jigging hooks (comprising a lead weight, which also acts as a lure, with one or two circles of barbless hooks) to line and lowers line by hand or by winch from offset drum over side of vessel. Hauls line by hand or winch onto offset drum, so that the jigging hooks move through the water in a succession of quick jerks. Removes squid from jigging hooks.

May attract squid with powerful lights. May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment. May undertake search and rescue operations in co-operation with government authorities. May assume control of a fleet of fishing vessels.

**Job Content Factor****Workers**

FP: GE10-11y PSP5m(B)

IP: E2y

HC: REI

RQ: S1 Q2 U2 D1 V1 A2

**Materials**

SM: D2 P2 T1

EQ: S1 N1 V1

**Functions**

MA: I1 A1 P1 D2 R2 M2 L2

PA: U1 C1 H1 S2 W1 B1 E4

SA: S1 M2 B1 R3-4

**Context**

EC: M1 L2 C08,09,12

TC: S2 I1 R2

SS: V

SC: V

LMS: 100-150 (50%SE)

ASIC: 0433

**5100-I ABALONE DIVER (MASTER FISHERMAN/WOMAN)**

Collects abalone from sea-bed using hookah, scuba or snorkel, assisted by crew members on board vessel.

Performs duties as described in the definition for Unit Group 5100 MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS. Dons diving gear and enters water. On finding abalone, prises from rocks with abalone iron or chipper (curved steel or aluminium bar) and places in mesh basket. When basket full, signals crewman/woman to haul basket back onto vessel. Operates from vessel in depths down to approximately 35 metres, staying underwater for extended periods.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment.

**Job Content Factor****Workers**

FP: GE10-11y PSP5m(B)

IP: E2y

HC: RIS

RQ: S1 Q2 U2 D1 V1 A2

**Materials**

SM: D2 T1

EQ: S1 N1 V1 W1

**Functions**

MA: A2 P1 D2 R3 M2 L2

PA: U1 C1 H1 W2 B1 E3

SA: A1 S2 B2 R0-4

<i>Context</i>	
EC: M1 L2 C08,13	TC: S1 I1 R2
SS: V	SC: V

LMS: 100-150 (50%SE)

ASIC: 0433

### 5100-J MASTER FISHERMAN/WOMAN, POTS AND TRAPS FISHING VESSEL

Catches crustacea, cephalopods and fish, using pots and traps, working alone or assisted by crew.

Performs duties as described in the definition for Unit Group 5100 MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS. Locates areas to place pots with reference to bottom conditions, usually by hydrocaustic means. Fastens bait inside pots or traps (cages of various sizes and shapes according to species sought) with funnel shaped openings. Places weights inside pots and attaches buoy line, or ties pots to weighted fleet lines and ties fleet to buoy line at both ends. Attaches buoy line to buoy and lowers pots and lines into water. Retrieves pots and traps after interval by securing buoy with hooked pole or by hand and pulls up pots and traps by hand or using winch. Measures catch to ensure it is of legal size and returns undersized catch to the sea.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment. May undertake search and rescue operations in co-operation with government authorities. May assume control of a fleet of fishing vessels. May tie claws of lobsters and crayfish to prevent them from damaging each other. May place catch in swimming tanks aboard vessel.

#### Job Content Factor

<i>Workers</i>	
FP: GE10-11y PSP5m(B)	IP: E2y
HC: REI	RQ: S1 Q2 U2 D1 V1 A2

<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1 V1

<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M2 L2	
PA: U1 C1 H1 S2 W1 B1 E4	SA: S1 M2 B1 R0-4

<i>Context</i>	
EC: M1 L2 C08,09,12	TC: S2 I1 R2
SS: V	SC: V

LMS: 100-150 (50%SE)

ASIC: 0431,0433

### 5100-K

### MASTER FISHERMAN/WOMAN, SCALLOP AND SHELL DREDGING VESSEL

Harvests shellfish from the sea-bed using a towed dredge or rake assisted by crew of vessel.

Performs duties as described in the definition for Unit Group 5100 MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS. Attaches warps (towing cables) to dredge or rake (a heavily constructed steel framework with rectangular mouth to which the towing arms and brackets are attached). The bottom bar of the mouth is formed into a knife or scythe which scrapes the bottom freeing and lifting the complete shellfish. Shellfish are stored in a mesh bag or metal tray until they are brought aboard. Passes dredge over stern of vessel and lowers by winch to sea-bed. Operates vessel to tow dredge through shellfish beds. Winches dredge on board vessel. Empties catch onto sorting tray.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment. May undertake search and rescue operations in co-operation with government authorities. May assume control of a fleet of fishing vessels. May extract meat from shells, or store for transportation to shore-based facility.

#### Job Content Factor

<i>Workers</i>	
FP: GE10-11y PSP5m(B)	IP: E2y
HC: REI	RQ: S1 Q2 U2 D1 V1 A2

<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1 V1

<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M2 L2	
PA: U1 C1 H1 S2 W1 B1 E4	SA: S1 M2 B1 R0-4

<i>Context</i>	
EC: M1 L2 C08,09,12	TC: S2 I1 R2
SS: V	SC: V

LMS: 100-150 (50%SE)

ASIC: 0433

### 5100-Z

### MASTER FISHERMEN/WOMEN, SEA-GOING FISHING VESSELS nec

This residual group covers skippers of other sea-going fishing vessels not elsewhere classified in Unit Group 5100, e.g.

Master Fisherman/woman, Pearling Vessel  
Skipper, Pearling Vessel

## 5101 FISHERMEN/WOMEN, DECKHANDS ON SEA-GOING FISHING VESSELS

This unit group covers occupations concerned with working as a crew member of vessel, catching fish, crustaceans, molluscs, with various types of nets, lines, poles, pots, traps, at varying depths; harvesting shellfish from sea-bed using a towed dredge or rake; assisting abalone diver in the collection of abalone from sea-bed.

**Entry Requirements** an appropriate Assistant Fisherman/woman's licence.

**Activities include** baiting hooks and pulling back on board vessel; tying lines to poles and putting line in water and hauling onto deck by hand or using reel; fastening bait inside pots and traps, lowering pots and later retrieving them, removing catch and tossing undersized catch overboard; assisting abalone diver, operating compressor to maintain air supply, emptying basket, extracting meat from shells; sorting, cleaning, preserving, stowing and refrigerating catch; repairing nets; assisting in operation and maintenance of vessel and equipment, loading, unloading and stowing supplies, equipment and catch.

# **5101-A FISHERMAN/WOMAN, SEA-GOING NET FISHING VESSEL**

Works as crew member of vessel; catches fish, crustacea, or molluscs with various types of nets, set or dragged at varying depths between bottom and surface in coastal and offshore waters.

Attaches otter boards, beams, runners, trawl warps (towing cables), weights, buoys, anchors and clamps to nets, as required. Ties nets together to form fleet of nets. Casts net overboard by hand or using winch. Ensures nets are properly set. Operates winch to close net, where appropriate, and to pull net on board vessel. Empties fish from net. Sorts, cleans, preserves, stows and refrigerates catch. Repairs nets using knife, net needle and twine, and assists in the operation and maintenance of vessel and equipment. Loads, unloads and stows supplies, equipment and catch.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment.

## **Job Content Factor**

<i>Workers</i>	
FP: GE NFR	IP: T4-6w
HC: RIE	RQ: S1 D2 V1
<i>Materials</i>	
SM: P2 T1	EQ: S1 N1 W2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H1 W1 B1 E4	SA: S1 L2
<i>Context</i>	
EC: M1 L2 C08,09,12	TC: S2 I1 R1
SS: V	SC: V
LMS: 500-1000 (0 %SE)	ASIC: 0432,0433

# **5101-B FISHERMAN/WOMAN, TROLLING AND HANDLINE VESSEL**

Works as crew member of vessel; catches fish with trolling lines attached to vessel or using handlines.

Lays out lines and attaches hooks, bait, sinkers, anchors, floats and swivels, dependant on type of fish sought. Ties lines to poles extending from sides of vessel; operates vessel to troll lines. Puts line in water and holds by hand, or anchors line to bottom and attaches buoy or marker float. Hauls line onto deck by hand or using reel or winch. Hauls fish from water using gaff if required. Stuns fish with club (if necessary) and removes catch from line by hand. Sorts, cleans, preserves, stows and refrigerates catch. Assists in the operation and maintenance of vessel and equipment. Loads, unloads and stows supplies, equipment and catch. Catches bait if required using beach or bar seine.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment.

## **Job Content Factor**

<i>Workers</i>	
FP: GE NFR	IP: T4-6w
HC: RIE	RQ: S1 D2 V1
<i>Materials</i>	
SM: P2 T1	EQ: S1 N1 W2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H1 W1 B1 E4	SA: S1
<i>Context</i>	
EC: M1 L2 C08,09,12	TC: S2 I1 R1
SS: V	SC: V
LMS: 500-1000 (0 %SE)	ASIC: 0433

# **5101-C FISHERMAN/WOMAN, LONGLINE AND DROPLINE VESSEL**

Works as crew member of vessel; catches fish with longline or dropline.

Attaches buoys, anchors and hooks to line. Baits hooks. Sets lines in position using anchors and buoys by feeding with winch from drum, or by hand from boxes, over stern of vessel. Recovers gear, after interval, by retrieving buoy and hauling aboard vessel by hand or using winch. Removes fish from hooks by hand. Stores lines ready for baiting and resetting. Sorts, cleans, preserves, stows and refrigerates catch. Assists in the operation and maintenance of vessel and equipment. Loads, unloads and stows supplies, equipment and catch.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment.

## **Job Content Factor**

<i>Workers</i>	
FP: GE NFR	IP: T4-6w
HC: RIE	RQ: S1 D2 V1
<i>Materials</i>	
SM: P2 T1	EQ: S1 N1 W2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H1 W1 B1 E4	SA: S1 L2
<i>Context</i>	
EC: M1 L2 C08,09,12	TC: S2 I1 R1
SS: V	SC: V
LMS: -1000 (0 %SE)	ASIC: 0433

# **5101-D FISHERMAN/WOMAN, TUNA POLE AND LIVE BAIT VESSEL**

Works as crew member of vessel; catches pelagic fish using long pole with a line attached having a feather or other lure with a barbless hook; alternatively, live bait may be used.

Attracts fish to feed by using live bait. Casts line astern as vessel passes slowly through the school. Upon fish striking, heaves on poles to fling fish onto deck. The hook is barbless and the fish disengages automatically. Sorts, cleans, preserves, stows and refrigerates catch. Assists in the operation and maintenance of vessel and equipment. Loads, unloads and stows supplies, equipment and catch. Catches bait, if required, using seine or gill net.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment.

## **Job Content Factor**

<i>Workers</i>	
FP: GE NFR	IP: T4-6w
HC: RIE	RQ: S1 D2 V1
<i>Materials</i>	
SM: P2 T1	EQ: S1 N1 W1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H1 W1 B1 E5	SA: S1 L2
<i>Context</i>	
EC: M1 L2 C08,09,12	TC: S2 I1 R1
SS: V	SC: V
LMS: 500-1000 (0 %SE)	ASIC: 0433

# **5101-E FISHERMAN/WOMAN, SQUID JIGGING VESSEL**

Works as crew member of vessel; catches squid using jigging hooks.

Attaches jigging hooks to line and lowers line by hand or by winch from offset drum over side of vessel. Hauls line by hand or winch onto offset drum so that the jigging hooks move through the water in a succession of quick jerks. Removes squid from barb of jigging hooks. Assists in the operation and maintenance of vessel and equipment. Loads, unloads and stows supplies, equipment and catch.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment.

**Job Content Factor****Workers**

FP: GE NFR

IP: T4-6w

HC: RIE

RQ: S1 D2 V1

**Materials**

SM: P2 T1

EQ: S1 N1 W1

**Functions**

MA: D3 R4 L3

PA: U1 H1 W1 B1 E4

SA: S1 L2

**Context**

EC: M1 L2 C08,09,12

TC: S2 I1 R1

SS: V

SC: V

LMS: 500-1000 (0 %SE)

ASIC: 0433

**5101-F FISHERMAN/WOMAN, POTS AND TRAPS FISHING VESSEL**

Works as crew member of vessel; catches crustacea, cephalopods and fish using pots and traps.

Fastens bait inside pots and traps. Places weights inside pots and attaches buoy line, or ties pots to weighted fleet lines and ties fleet lines to buoyline at both ends. Attaches buoyline to buoy and lowers pots and lines into water by hand or using winch. Retrieves pots and traps after interval by securing buoy with hooked pole or by hand and pulls up pots and traps by hand or using winch. Removes catch by hand and measures it to ensure it is of legal size, and returns undersized catch to the sea. Places catch in swimming tanks on board vessel or in other cool storage. Assists in the operation and maintenance of vessel and equipment. Loads, unloads and stows supplies, equipment and catch.

May tie claws of lobsters to prevent them damaging each other. May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment.

**Job Content Factor****Workers**

FP: GE NFR

IP: T4-6w

HC: RIE

RQ: S1 D2 V1

**Materials**

SM: P2 T1

EQ: S1 N1 W1

**Functions**

MA: D3 R4 L3

PA: U1 H1 W1 B1 E4

SA: S1

**Context**

EC: M1 L2 C08,09,12

TC: S2 I1 R1

SS: V

SC: V

LMS: 500-1000 (0 %SE)

ASIC: 0431,0433

**5101-G FISHERMAN/WOMAN, SCALLOP AND SHELL DREDGING VESSEL**

Works as crew member of vessel; harvests shellfish from sea-bed using a towed dredge or rake.

Attaches warps to dredge, passes dredge over stern of vessel and lowers by winch to sea-bed. After dredge has been towed through shellfish bed, winches dredge on board and empties catch into sorting tray. Assists in operation and maintenance of vessel and equipment. Loads, unloads and stows supplies, equipment and catch.

May extract meat from shells or store shells whole for transportation to shore-based facility. May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment.

**Job Content Factor****Workers**

FP: GE NFR

IP: T4-6w

HC: RIE

RQ: S1 D2 V1

**Materials**

SM: P2 T1

EQ: S1 N1 V1 W2

**Functions**

MA: D3 R4 L3

PA: U1 H1 W1 B1 E4

SA: S1

**Context**

EC: M1 L2 C08,09,12

TC: S2 I1 R1

SS: V

SC: V

LMS: 500-1000 (0 %SE)

ASIC: 0433

**5101-H FISHERMAN/WOMAN, ABALONE SHUCKER (SHELLER)  
Abalone Sheller**

Works as crew member of vessel; assists diver in the collection of abalone from the sea-bed.

Assists diver to don gear. Attaches line to mesh basket used to hold catch and secures other end to vessel. Operates compressor to maintain air supply to diver if using hookah gear. If using scuba, refills tanks, as required, using compressor. Passes mesh basket over side of vessel to diver and hauls aboard by hand when diver signals basket full. Empties basket and returns it to diver. Extracts meat from shells. Sorts, cleans, preserves, stows and refrigerates catch. Assists in the operation and maintenance of vessel. Loads, unloads and stows supplies, equipment and catch.

May store shells whole for transportation to shore-based facility. May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment.

**Job Content Factor****Workers**

FP: GE NFR

IP: T4-6w

HC: RIE

RQ: S1 D2 V1

**Materials**

SM: P2 T1

EQ: S1 N1 W2

**Functions**

MA: D3 R4 L3

PA: U1 H1 W1 B1 E4

SA: A1 S2

**Context**

EC: M1 L2 C08,09,12

TC: S2 I1 R1

SS: V

SC: V

LMS: 500-1000 (0 %SE)

ASIC: 0433

**5101-Z FISHERMEN/WOMEN, DECKHANDS ON SEA-GOING FISHING VESSELS nec**

This residual group covers occupations concerned with working as crew of vessel, catching fish and other marine life, not elsewhere classified in Unit Group 5101, e.g.

Fisherman/woman, Pearl Diving  
Fisherman/woman, Spear Diving

**5102 INLAND WATERS AND ESTUARY FISHING OCCUPATIONS**

This unit group covers occupations concerned with working as crew members of vessels, catching fish, crustaceans, molluscs with different nets, stationary traps, pots or dillies, in varying depths in estuaries, rivers, lakes, foreshores, beach flats, creeks and shallow coastal waters.

**Entry Requirements** generally a basic vocational certificate of proficiency to operate an inland waters vessel plus 2 years' experience and an appropriate fishing licence.

**Activities include** interviewing and hiring crew members and assigning duties; using compass and navigation charts to plot course and compute position; steering vessel and operating radio, sonar, echo sounder and other navigational and fishing aids; monitoring and interpreting weather patterns; directing fishing operations employing knowledge of species sought, fishing grounds, seasons and capabilities of vessel and crew; directing and assisting crew in fishing operations and sorting, cleaning, preserving, stowing and refrigerating catch; keeping record of daily activities; inspecting vessel and gear to ensure proper maintenance and equipping; overseeing and assisting in repair or replacement of defective items; purchasing supplies and equipment; supervising and assisting in the loading, unloading and storage of supplies, equipment and catch; arranging sale of catch; and keeping accounts and other records.

# **5102-A FISHERMAN/WOMAN, INLAND WATERS AND ESTUARY NET FISHING VESSEL**

Works as crew member of vessel, catches fish, crustaceans, or molluscs with nets set or dragged at varying depths in estuaries, rivers, lakes and foreshores.

Attaches buoys, anchors, weights, poles, stakes and cables to net, as required. Ties nets together to form fleets of nets, where appropriate. Lowers nets into water over stern of vessel by hand or using winch. Sets and anchors net as required. Hauls net to boat or shore by hand or using winch. Removes fish and other marine life from net. Sorts, cleans, preserves, stows and refrigerates catch. Repairs nets using knife, net needle and twine, and assists in the operation of maintenance of vessel and equipment. Loads, unloads and stows supplies, equipment and catch.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment.

## **Job Content Factor**

<b>Workers</b>	
FP: GE NFR	IP: T4-6w
HC: RIE	RQ: S1 D2 V1
<b>Materials</b>	
SM: P2 T1	EQ: S1 N1 W2
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 H1 W1 B1 E4	SA: S1 L2
<b>Context</b>	
EC: M1 L2 C08,09,12	TC: S2 I1 R1
SS: V	SC: V
LMS: 500-1000 (0 %SE)	ASIC: 0431,0432,0433

# **5102-B SEINE AND GILL NET FISHERMAN/WOMAN**

Catches fish with seine or gill net in rivers, creeks, estuaries, beach flats, foreshores and shallow coastal waters.

Attaches floats, weights, poles, ropes and cables to net, using wire and hand tools. Ties nets together to form fleet of nets and attaches anchor and buoy, where necessary, to each end. Lowers net into water by hand or using winch and sets them in position. Hauls net to boat or shore by hand or using winch, and removes fish from nets by hand. Where "set net" is used, uses boat to move along net and remove enmeshed fish by hand. Repairs net.

May work alone or with assistance. May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment. May be designated, e.g.

Beach Seine Fisherman/woman  
Haul Seine Fisherman/woman

Ring Net Fisherman/woman  
Set Net Fisherman/woman

## **Job Content Factor**

<b>Workers</b>	
FP: GE9-10y PSP1-2m(B)	IP: E2y
HC: REI	RQ: S1 U2 D2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N1 V1 W1
<b>Functions</b>	
MA: I2 A1 P1 D2 R3 M2 L2	
PA: U1 H1 W1 B1 E4	SA: A1 S1 B1 R0-4
<b>Context</b>	
EC: M1 L2 C08,12,09	TC: S2 I1 R1
SS: V	SC: V
LMS: 500-1000 (0 %SE)	ASIC: 0433

# **5102-C PRAWN FISHERMAN/WOMAN Prawn**

Catches prawns in rivers, creeks, lakes and estuaries using beam trawl, or danish seine.

Using beam trawl, attaches wood or metal beam and shoes (ski type arrangement) to mouth of net to hold it open during towing. Fastens trawl warps to net and casts net overboard. Operates vessel to tow trawl across sea-bed. Pulls net on board by hand or using winch and releases catch from end of net into sorting tray. Using pocket net, attaches anchors, poles, floats, weights, ropes and cables to net. Sets net, using poles and anchors, across current or tide stream so that tide flow holds net open and channels prawns into end of net. Empties cod end at slack water. Leaves net set to work next tide. Sorts catch and repairs nets.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment. May be required to cook prawn catch on board.

## **Job Content Factor**

<b>Workers</b>	
FP: GE9-10y PSP1-2m(B)	IP: E2y
HC: REI	RQ: S1 Q2 U2 DV V1 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N1 V1 W1
<b>Functions</b>	
MA: I2 A1 P1 D2 R3 M2 L2	
PA: U1 H1 W1 B1 E4	SA: A1 S1 B1 R0-4
<b>Context</b>	
EC: M1 L2 C08,09,12	TC: S2 I1 R1
SS: V	SC: V
LMS: 500-1000 (0 %SE)	ASIC: 0432

**5102-D FISH TRAPPER**

Catches fish with stationary traps or tunnel net working with other fishermen/women.

Sets out series of stakes to which leader (long piece of netting extending from surface to bottom to guide fish into trap or tunnel) is attached at high water. Sets trap or tunnel in water using stakes, piles, guy lines, anchors, floats, weights and buoys to shape and hold trap in place. As tide ebbs, the fish drain out from the tidal flats and are channelled into the trap or tunnel which is then closed off with a netting gate. The net is worked off so that at low tide all that is left is the trap or tunnel in the water. Scoops fish from trap or tunnel into boat using shovel (dip net). Sorts, cleans and preserves catch. Repairs net.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment.

**Job Content Factor**

<i>Workers</i>	
FP: GE9-10y PSP1-2m(B)	IP: E2y
HC: REI	RQ: S1 U2 DV V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1 V1 W1
<i>Functions</i>	
MA: A2 P1 D2 R3 M2 L2	
PA: U1 H1 W1 B1 E4	SA: A2 S1 B1 R0-4
<i>Context</i>	
EC: M1 L2 C08,09,12	TC: S2 I1 R1
SS: V	SC: V
LMS: 500-1000 (0 %SE)	ASIC: 0433

**5102-E FISHERMAN/WOMAN, CRAB POTS AND DILLIES**

Catches crabs using pots or dillies.

Fastens bait inside pots (cages made from cane or wire netting with funnel openings) and dillies (ring with net attached to enmesh crabs). Places weights inside crab pots. Attaches buoy line and buoy, and lowers pots and dillies into water. Retrieves pot or dilly after interval by securing buoy with hooked pole or by hand and pulls up pot or dilly by hand or using winch. Removes crab from pots or dillies. Measures catch with fixed gauge to ensure catch is of legal size. Returns undersized and female crabs.

May hold dual role (deck and marine engineering) certificate of competency and be responsible for maintenance and control of main and auxiliary motors and equipment. May have to tie claws of larger crab species to prevent them damaging each other.

**Job Content Factor**

<i>Workers</i>	
FP: GE9-10y PSP1-2m(B)	IP: E2y
HC: REI	RQ: S1 U2 DV V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 N1 V1 W1
<i>Functions</i>	
MA: I2 A1 P1 D2 R3 M2 L2	
PA: U1 H1 W1 B1 E4	SA: A1 S1 B1 R0-4
<i>Context</i>	
EC: M1 L2 C08,12	TC: S2 I1 R1
SS: V	SC: V
LMS: 500-1000 (0 %SE)	ASIC: 0433

**5102-Z INLAND WATERS AND ESTUARY FISHING OCCUPATIONS nec**

This residual group covers occupations, not elsewhere classified in Unit Group 5102.

**5109 OTHER FISHING AND HUNTING OCCUPATIONS**

This residual unit group covers occupations concerned with cultivating and harvesting oysters using stick and tray methods; assisting other workers to collect, incubate and rear fish and other aquatic life and maintaining equipment, premises and grounds of fish farm/hatchery; hunting, trapping and shooting feral and native animals.

**Activities include** selecting beds and collecting cultch oysters, setting them out on tarred sticks nailed together in special arrangement; when oysters mature, transporting them to culling and grading area; collecting adult brood fish, releasing them into sorting and holding ponds of hatchery, assisting in incubation and rearing of fish; maintaining equipment, premises and grounds of hatchery; inspecting vessels, tanks, rearing ponds, enclosures and equipment to ensure they are properly maintained; purchasing supplies and equipment, arranging sales and keeps accounts and other records; hunting and shooting animals using spotlight to sight and stun at night; tracking animals and placing baits and setting traps and snares; removing animals from snares and transferring them to cages or bags for transportation.

**5109-A OYSTER GROWER**

Cultivates and harvests oysters using stick and tray methods.

Selects rearing and maturing beds according to substrate, water quality and weather conditions, supply of natural food and relative freedom from predators. Collects cultch (seed) oysters, sets out on tarred sticks nailed together in special arrangement to protect from predators, sets and ties sticks on

lease to catch spat (spawn). Removes sticks from rearing beds when shells hard enough to resist predators and alters arrangement of sticks. Sets out sticks in new arrangement in maturing beds. When oysters mature, collects sticks, splits batteries of sticks apart and knocks off oysters. Transports oysters to culling and grading area. Sets out lower grade oysters in trays and places on racks in maturing bed, collects and sorts when mature. Higher grade oysters are sold to

"marketing houses" as "plate" or "bottling" oysters. Inspects vessels and equipment to ensure they are properly maintained. Oversees and assists in repair or replacement of defective items. Purchases supplies and equipment. Arranges sale of produce and keeps accounts and other records. Interviews, hires and assigns duties to staff, as required.

May work alone or have assistance.

**Job Content Factor**

<i>Workers</i>	
FP: GE10y	IP:
HC: REC	RQ: L2 S1 U2 DV V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1 V1 W1
<i>Functions</i>	
MA: I2 A2 P1 D2 R3 M3 L2	
PA: U1 H1 W1 B1 E4	SA: S1 L2 B1 R0-3
<i>Context</i>	
EC: L4 C08,12,13	TC: AV S2 IV R1
SS: V	SC: V
LMS: 800 (99%SE)	ASIC: 0434

**5109-B OYSTER GROWER'S ASSISTANT**

Assists in the cultivation and harvesting of oysters, using stick and tray culture methods.

Tars and nails sticks together in special arrangement to hold cultch (seed) oysters and protect them from predators. Assists in the collection of cultch oysters and sets out sticks with cultch oysters on lease to catch spat (spawn). Removes sticks from rearing bed when shells hard enough to resist predators and alters arrangement of sticks. Sets out new arrangement in maturing beds. When oysters mature, collects sticks, splits batteries of sticks apart and knocks off oysters. Transports oysters to culling and grading area and assists in culling and grading. Sets out lower grade oysters in trays and places on racks in maturing bed, collects and sorts when mature. Assists in the operation and maintenance of vessels and equipment.

May on rare occasions use ground cultivation method.

**Job Content Factor**

<i>Workers</i>	
FP: GE NFR	IP:
HC: RCI	RQ: L2 DV V1
<i>Materials</i>	
SM: T1	EQ: S1 N1 V2 W1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H1 W1 B1 E4	SA: S1 L1
<i>Context</i>	
EC: L2 C08,12,13	TC: AV S2 IV R1
SS: V	SC: V
LMS: 1500 (0 %SE)	ASIC: : 0434

**5109-C FISH FARM WORKER**

Assists other workers to collect, incubate and rear fish and other aquatic life, and maintain equipment, premises and grounds of fish farm/hatchery.

Assists with collection of adult brood fish from streams, lakes and ponds. Transports fish from collection site and releases them into sorting and holding ponds of fish hatchery. Sterilizes equipment to prepare incubation facilities. Places trays of fertilised eggs in disinfectant solution and rinses eggs in water tank. Picks out unfertilised eggs from incubator tray. Weighs feeding ration and scatters food on surface of water in rearing ponds and enclosures, or fills automatic feeding dispenser. Patrols enclosures to detect abnormal numbers of fish mortalities, blocked water screens and filters and to monitor water temperature. Removes dead fish from ponds, using net. Cleans water screens and filters to prevent overflowing and to restore water level to specified depth and temperature. Captures sample fish and culls fish using net. Transfers fish in water-filled containers to larger rearing ponds or tanks as fish mature. Transfers young fish to tanks

and packs fertilized eggs in insulated cases for delivery to release points or other fish-culture establishments. Drains enclosures and tanks and removes debris. Cleans and disinfects enclosures and tanks. Maintains and repairs tanks, rearing ponds, enclosures, vessels, equipment, building, and grounds of hatchery.

**Job Content Factor**

<i>Workers</i>	
FP: GE NFR	IP: T3-4w
HC: RCI	RQ: L2 DV V1
<i>Materials</i>	
SM: D2 P1 T2	EQ: P1 S1 N1 M1 V1 W1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C1 H1 W1 B2 E3	SA: S1 L2
<i>Context</i>	
EC: L4 C08	TC: A1 I1 R2
SS: V	SC: V
LMS: 2000 (0 %SE)	ASIC: 0434

**5109-D SHOOTER/TRAPPER Hunter**

Hunts, traps and shoots feral and native animals, including birds and reptiles, for food or pelts, for research purposes, to eradicate pests, or as part of environmental management programs, by performing any combination of the following duties.

Hunts and shoots animals. Uses spotlight to sight and stun animals when shooting at night. Tracks animals and places poison baits along trails and around water holes. Lays and baits traps or snares. Inspects traps periodically, removes prey and resets traps. Removes live animals from snares and transfers animals to cage or bag, for transportation, or tags and releases animal. Uses knife to gut and remove unwanted parts of carcasses. Places carcasses in mobile freezer vans.

May shoot animals for use as bait and may prepare poison baits by adding poisonous chemicals such as strychnine to baits. May participate in aerial shooting of animals such as donkeys and buffalo. May build corral and trap large animals by driving them into it. May rope captured animals. May skin animal and stretch skin over wire frame or pegs to dry. May erect tarpaulin over drying skins to protect them from the sun. May scalp carcasses and deliver scalps to appropriate authority in order to receive bounty. May specialise in the hunting and trapping and/or shooting of a particular type of animal or solely in the trapping of animals and be designated accordingly, e.g.

Dogger  
Rabbit Hunter  
Kangaroo Shooter

**Job Content Factor**

<i>Workers</i>	
FP: GE NFR	IP: E0-1y
HC: RIC	RQ: L1 S1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1 V1
<i>Functions</i>	
MA: A1 P2 D3 R3 M3 L3	
PA: P1 U1 C1 H1 S2 W1 E4	SA: A1 S1
<i>Context</i>	
EC: T1 M1 L2 C06,13	TC: S1 I1
SS: V	SC: V
LMS: 500 (99%SE)	ASIC: 0440

**5109-Z FISHING AND HUNTING OCCUPATIONS nec**

This residual group covers occupations, not elsewhere classified in Unit Group 5109, e.g.

Aquarium Fish Collector  
Coral Collector  
Kelp/Seagrass Gatherer  
Master Fisherman/woman, Electro-Fishing  
Master Fisherman/woman, Eel  
Pearl Farmer



## **MAJOR GROUP 52**

### **FORESTRY OCCUPATIONS**

Forestry and Logging Occupations are classified in the following minor groups.

520 Forestry Occupations

521 Logging Occupations

# 52 FORESTRY OCCUPATIONS

## 520 FORESTRY OCCUPATIONS

### 5200 FORESTRY SUPERVISORS

5200-A Forest Overseer  
5200-Z Forestry Supervisors nec

### 5201 GENERAL FORESTRY WORKING OCCUPATIONS

5201-A General Forestry Worker

### 5209 OTHER FORESTRY OCCUPATIONS

5209-A Tree Marker  
5209-Z Forestry Occupations nec

## 521 LOGGING OCCUPATIONS

### 5210 LOGGING SUPERVISORS

5210-A Foreman/woman, Logging  
5210-Z Logging Supervisors nec

### 5211 TREE FALLERS

5211-A Hardwood Faller  
5211-B Softwood Faller

### 5212 LOGGING PLANT OPERATORS

5212-A Plant Operator, Felling and Processing  
5212-B Skidder Operator  
5212-C Forwarder Operator  
5212-D Log Loading Machine Operator

### 5219 OTHER LOGGING OCCUPATIONS

5219-A Timber Assessor  
5219-B Landing Operator (Logging)  
5219-Z Logging Occupations nec

## MINOR GROUP 520 FORESTRY OCCUPATIONS

Forestry Occupations are classified in the following unit groups.

- 5200 Forestry Supervisors
- 5201 General Forestry Working Occupations
- 5209 Other Forestry Occupations

### *Related Occupation*

Occupation 2013-A : Forester

### 5200 FORESTRY SUPERVISORS

This unit group covers supervisory occupations concerned with forest management including the conservation, protection, marketing and maintenance of forests.

**Entry Requirements** Year 10-12 plus, in some cases, satisfactory completion of an appropriate training course, and/or up to 4 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN in relation to the quality of logging operations; checking forest conditions; ensuring compliance with forestry regulations; and administering in fire prevention and control programs.

#### 5200-A FOREST OVERSEER Forest Foreman/woman; Forest Ranger; Foreman/woman, Forestry

Patrols area of forest to check forest conditions.

Reports findings, and receives and relays emergency calls using two-way radio. Observes, measures, records and maps forest and relevant meteorological data. Supervises and trains seasonal and subordinate personnel. Selects and marks timber for cutting. Supervises and co-ordinates preparation of wooded areas and building of roads and bridges etc. in forest for logging operations and other purposes, and oversees logging operations to ensure compliance with safety and other regulations. Grades select sections of timber; inspects and measures logs felled to determine royalty rates; records measurements, species and condition of logs on computer forms and marks crowns to allow removal from forest. Markets timber in small forests. Visits public recreational areas and answers queries about wildlife, fishing and hunting regulations. Advises search parties regarding lost campers and renders assistance or first aid to lost or injured persons. Plants trees, administers fire-control programs and performs other seasonal tasks.

May specialise in supervising and/or carrying out work programs involving the harvesting and marketing of specified forest products and be designated accordingly.

Forest Overseer, Harvesting and Marketing; Forest Ranger, Harvesting and Marketing

#### *Job Content Factors*

##### *Workers*

FP: GE10-12y PSP1-2y(B)	IP: T1-2m E0-2y
or FP: GE10y	IP: T2m E4y
HC: ECR	RQ: L1 P2 D2

##### *Materials*

SM: D2 P1 T2	EQ: S2 N1 V1
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##### *Functions*

MA: P2 D2 R3 M3 L2	SA: A2 S1 I2 B1 R4
PA: U1 S2 W2 E2	

##### *Context*

EC: L2 C13	TC: A1 I2
SS: 7	SC: 7 (2 y)

LMS: 600 ( 0%SE)

ASIC: 030

#### 5200-Z FORESTRY SUPERVISORS nec

This residual group covers forestry supervisors not elsewhere classified in Unit Group 5200.

### 5201 GENERAL FORESTRY WORKING OCCUPATIONS

This unit group covers general forestry working occupations.

**Entry Requirements Year 8-10.**

**Activities include** collecting seeds; raising and planting nursery seedlings; fertilising trees; controlling forest fires; cutting firewood; and performing routine duties associated with the maintenance of plantations.

**5201-A GENERAL FORESTRY WORKER**  
**Forest worker; Forest Workman/woman**

Undertakes a variety of tasks related to the cultivation, maintenance and protection of natural and plantation forests and woodlots, performing any combination of the following duties.

Collects seeds, including seed cones from coniferous trees. Raises nursery seedlings. Plants seedlings in predetermined areas for reforestation purposes. Fertilises trees. Kills weeds by brushing, use of axe, ringbarking or application of weedicides. Sprays forest areas with insecticides. Prunes trees. Fells unmerchantable trees in order to reduce fire risks. Thins young plantations by axe or chainsaw. Falls trees by axe or chainsaw. Slashes scrub on roadsides and prepares firebreaks. Observes forest areas to detect wild fires and, in case of fire, alerts appropriate emergency services. Operates a variety of fire-fighting equipment. Maintains forest roads, buildings, facilities, signs and equipment. Cuts firewood. Assists with research work. Performs general maintenance and protection duties under direction.

May cook for mobile survey crews. May assist in logging operations. May specialise in specific duties and be designated accordingly, e.g.

Fire Look-out  
Tree Planter

Plant Operator, Forestry

**Job Content Factors****Workers**

FP: GE8-10y IP: T1-T2m  
 HC: RS RQ: L2

**Materials**

SM: T1 EQ: N1 V2

**Functions**

MA: D3 R4 M3 L3  
 PA: U1 H1 W1 E4 SA: S1

**Context**

EC: L2 C13 TC: A1 S2  
 SS: 4 SC: 5 (5 y)

LMS: 2000 ( 0%SE)

ASIC: 030

**5209 OTHER FORESTRY OCCUPATIONS**

This residual unit group covers occupations concerned with maintaining and protecting forests not elsewhere classified in Minor Group 520.

**Activities include** selecting and marking timber for cutting according to size, condition and forest management policies.

**5209-A TREE MARKER**  
**Assistant Forester; Forest Guard; Forest Tree Marker**

Selects and marks trees for cutting according to size, condition and forest management policies, for use as woodchips or timber.

Walks through forest ahead of cutting crew. Measures diameter of trees using callipers or by basal area measurement, and selects trees for cutting using expertise in silviculture and knowledge of capabilities of tree harvesters and feller-buncher operations. Paints marks on trees selected for cutting, using pressure gun. Blazes with axe or point to mark trails, fire lanes or cutting boundaries.

**Job Content Factors****Workers**

FP: GE10-12y PSP2y(B) IP: T2y E4y  
 or FP: GE8-10y IP: T6m  
 HC: RE RQ: L1

**Materials**

SM: T1 EQ: S2 V2

**Functions**

MA: P2 D2 R3 M3 L3  
 PA: U1 W1 E3 SA: A2 S1

**Context**

EC: L2 TC: A1  
 SS: 4 SC: 5 (5 y)

LMS: 1015 ( 0%SE)

ASIC: 030

**5209-Z FORESTRY OCCUPATIONS nec**

This residual group covers forestry occupations not elsewhere classified in Minor Group 520.

MINOR GROUP 521  
LOGGING OCCUPATIONS

Logging Occupations are classified in the following unit groups.

- 5210     Logging Supervisors
- 5211     Tree Fallers
- 5212     Logging Plant Operators
- 5219     Other Logging Occupations

5210   LOGGING SUPERVISORS

This unit group covers occupations concerned with supervising logging operations in forests.

**Entry Requirements** Year 9-12 plus satisfactory completion of an appropriate training course or 3-4 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN on logging sites.

*Related Occupation*  
Unit Group 1023                    : Logging Manager

5210-A       FOREMAN/WOMAN, LOGGING  
                 Bush Boss

Supervises and co-ordinates activities of workers on logging sites.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Liaises with Forest Department officer-in-charge regarding movement within current coupe and new areas. Supervises and co-ordinates activities of workers concerned with road construction and the preparation of wooded areas for logging operations; felling, bunching and de-limbing trees, and cutting them into logs; inspecting and grading logs, and assessing their volume and marketable contents for timber or woodchips; rigging log-yarding systems, hoisting cut logs and moving logs from site of operations. Is concerned with safety aspects of logging operations.

May direct activities of logging contractor. May specialise in supervising a particular aspect of logging operation, or work on a contract basis, and be designated accordingly, e.g.  
Foreman/woman, Timber Cutting and Related Occupations  
Foreman/woman, Log Inspecting, Measuring, Grading, and Related Occupations

Foreman/woman, Log Sorting, Moving and Related Occupations  
Logging Contractor; Contractor, Timber Getting

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-12y PSP2y(B) or FP: GE9-10y	IP: T1y IP: T1y E3-4y
HC: ERI	RQ: L1 S2 U2
<i>Materials</i>	
SM: P1 T2	EQ: V1
<i>Functions</i>	
MA: P1 D2 R3 M3 L2 PA: S2 W1 E2	SA: S1 B1 R3
<i>Context</i>	
EC: L2 SS: 7	TC: A1 SC: 7 (2 y)
LMS: 226 ( 0%SE)	ASIC: 030

5210-Z       LOGGING SUPERVISORS nec

This residual group covers logging supervisors not elsewhere classified in Unit Group 5210.

## 5211 TREE FALLERS

This unit group covers occupations concerned with felling trees and sawing felled trees into logs.

**Entry Requirements** Year 8-10 plus satisfactory completion of an appropriate training course and/or up to 2 years' experience.

**Activities include** determining direction of fall of hardwood and/or softwood trees; clearing surrounding area; and felling and delimbing trees using chainsaw and axe.

### 5211-A HARDWOOD FALLER Hardwood Feller

Fells hardwood trees using chainsaw, and saws felled trees into logs.

Plans felling of logging coupe for ease of extraction, minimum damage and personal safety. Determines the natural and intended fall (if different) of each tree. Clears brush and debris from base of tree and clears escape route wherever feasible. Clears saplings and dead trees to prevent 'throw back' accidents. Saws suitable scarf in tree on side of intended fall. Makes back cut in tree leaving hinge of uncut wood across stump to control falling direction wherever possible. Adjusts both cuts to cope with burnt out stumps, rot, species and lean. In some cases, uses wedges in back cut to start tree falling in desired direction. Removes major branches and tops, and crosscuts into sawlog or other products. Sharpens cutting chain using file. Maintains chainsaw with regard to its cutting efficiency and other safety considerations.

May fell softwood trees as required. May work alone.

#### Job Content Factors

##### Workers

FP: GE8-10y PSP3w(B)	IP: T6-12m E3-6m
or FP: GE8-10y	IP: T2y E2y
HC: R1	RQ: L1 V2 A2

##### Materials

SM: T1	EQ: S1 N2
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##### Functions

MA: P2 D2 R4 L3	
PA: U1 C2 H2 W1 B2 E4	SA: A2 S1

##### Context

EC: M2 L2 C13,09,04	TC: A1
SS: 7	SC: 9 (vy)

LMS: 1300 (50%SE)

ASIC: 030

### 5211-B SOFTWOOD FALLER Softwood Feller

Fells softwood trees using chainsaw, and saws felled trees into logs.

Determines direction of tree fall for safety, minimum damage and easy hauling. Clears brush from base of tree, trims low branches and snags, and fells saplings and dead trees to prevent accidents, using axe and chainsaw. Saws scarf in tree on side of intended fall. Makes back cut on opposite side towards scarf leaving region of uncut wood across stump to control falling direction. Uses various felling aids such as wedges, felling bars, levers or push pole to start tree falling in desired direction. Trims branches from felled tree and saws tree top off. Saws trunk into logs of standard lengths using chainsaw and self-rewinding tape. Sharpens and maintains chainsaw. Lifts, carries and piles short logs, or bunches longer ones for skidding. Works alone or with assistance of another worker.

#### Job Content Factors

##### Workers

FP: GE8-10y PSP3w(B)	IP: T3-6m E3-6m
or FP: GE8-10y	IP: T1y
HC: R	RQ: L1

##### Materials

SM: T1	EQ: S1 N2
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##### Functions

MA: D3 R4 L3	
PA: U1 C2 H2 W1 E4	SA: A2 S1

##### Context

EC: M2 L2 C13,09,04	TC: A1 R2
SS: 7	SC: 9 (vy)

LMS: 800 (30%SE)

ASIC: 030

## 5212 LOGGING PLANT OPERATORS

This unit group covers occupations concerned with operating plant on logging sites.

**Entry Requirements** Year 8-10 plus satisfactory completion of an appropriate training course and one year's experience in some cases.

**Activities include** operating plant to clear brush, level roads, fell, delimb, saw, bunch, load, stack, drag or transport trees or logs.

#### Related Occupations

Occupation 7030-D	: Log Hauler
Occupation 6801-C	: Bulldozer Operator

## 5212-A PLANT OPERATOR, FELLING AND PROCESSING

Operates a variety of mobile machines designed to fell softwood and, in some instances, hardwood trees automatically, and to delimb, saw, bunch, load and transport logs, performing any combination of the following duties.

Drives machine to logging site. Moves levers to operate boom equipped with grapple, and other controls to hold tree and operate shear or saw which severs tree at base; to lift tree and feed it into jaws of processor or place tree on cradle of machine for delimbing or transporting; to delimb tree and cut it into logs or woodchips; to saw lengths of wood; to pile or dump trees or logs on ground in forest or at roadside, or to load trees or logs onto trucks; and to sort pulpwood or lumber logs into piles or bins, freeing any jammed logs. Shovels earth, limbs and other debris from machine. Works in co-operation with tree marker during tree felling and harvesting operations, particularly when difficult terrain is involved. Keeps log tally, writes work reports and submits them to supervisors. Services machine and makes minor repairs.

May specialise in operating a particular type of machine and be designated accordingly, e.g.

Feller-Buncher Operator

Tree Harvester Operator; Tree-Feller-Processor Operator

Tree Processor Operator

### Job Content Factors

<b>Workers</b>	
FP: GE8-10y PSP2w(B)	IP: T6m Ely
HC: RIC	RQ: L1 S2
<b>Materials</b>	
SM: D2 T1	EQ: S1 V1
<b>Functions</b>	
MA: A2 P2 D3 R4 M3 L3	
PA: P2 C1 H2 S1 E3	SA: A2 S2
<b>Context</b>	
EC: L2 C13,04	TC: A1
SS: 7	SC: 7 (3 y)
LMS: 60 ( 0%SE)	ASIC: 030

## 5212-B SKIDDER OPERATOR

Operates wheel-mounted or steel tracked skidder machine to drag felled trees or logs from forest cutting area to roadside.

Drives skidder to cutting area. Operates controls to position steel blade under logs. Drives skidder to push logs or trees into bunches with blade. Pulls choker cables, or signals other workers to pull cables, from rear winch. Fastens choker cables around logs by hand, or backs skidder into position and operates controls to close mechanical grapple jaws around logs. Operates winch or grapple controls to draw and lift ends of logs towards skidder. Drives skidder to drag logs to roadside loading area. Operates winch control to slacken cable. Frees choker cables from logs by hand or operates controls to open grapple jaws to release logs. Uses blade to clear and maintain snig tracks and to close off and drain snig tracks at end of operation. Services skidder and makes minor repairs.

### Job Content Factors

<b>Workers</b>	
FP: GE NFR	IP: T3m
HC: R	RQ: L1 S2
<b>Materials</b>	
SM: T1	EQ: V1

### Functions

MA: D3 R4 L3	
PA: C1 H2 S2 W2 E3	SA: A2 S2
<b>Context</b>	
EC: M2 L2 C03,09,04	TC: A1
SS: 7	SC: 7 (vy)
LMS: 400 ( 0%SE)	ASIC: 030

## 5212-C FORWARDER OPERATOR

Operates tracked or wheel-mounted machine equipped with hydraulic loading boom and grapple to load and transport logs from forest cutting area to roadside.

Drives machine to cutting area and operates controls to position hydraulic boom and grapple over logs; to close grapple and to lift, swing and release trees or logs into cradle or hydraulic bunk jaws of machine; and to close bunk jaws when vehicle is fully loaded. Drives machine to carry or drag logs to roadside. Operates controls to sort and dump load or to engage hydraulic boom and grapple to unload logs onto logging trucks. Services machine and makes minor repairs.

### Job Content Factors

<b>Workers</b>	
FP: GE NFR	IP: T3m
HC: R	RQ: L1 S2
<b>Materials</b>	
SM: T1	EQ: V1
<b>Functions</b>	
MA: D3 R4 L3	
PA: C1 S1 E3	SA: A2 S2
<b>Context</b>	
EC: L2 C03,04	TC: A1
SS: 7	SC: 7 (vy)
LMS: 350 ( 0%SE)	ASIC: 030

## 5212-D LOG LOADING MACHINE OPERATOR

Operates tracked or wheel-mounted crane or mobile loader to sort and stack logs or to load logs onto logging trucks.

Operates controls to rotate, extend and lower crane boom and grapple, or to drive loader to slide grapple under logs; to close grapple and lift logs; and to sort logs according to size, length, product or species before loading. Positions crane boom over log pile or logging truck, or drives loader into position near pile or truck. Operates controls to open grapple and release logs onto pile or logging truck. Services machines and makes minor repairs.

May operate tracked machine with blade to clear loading site, position bed of machine and skid logs; or to cut bank to form ramp, snig or push logs into position at foot of ramp, push logs up skids onto truck, and rotate logs on truck to bed the load.

### Job Content Factors

<b>Workers</b>	
FP: GE NFR	IP: T3m
HC: R	RQ: L1 S2
<b>Materials</b>	
SM: T1	EQ: V1
<b>Functions</b>	
MA: D3 R4 L3	
PA: C1 S1 E3	SA: A2 S2
<b>Context</b>	
EC: L2 C03,04	TC: A1
SS: 7	SC: 7 (vy)
LMS: 350 ( 0%SE)	ASIC: 030

### 5219 OTHER LOGGING OCCUPATIONS

This residual unit group covers logging occupations not elsewhere classified in Minor Group 521.

**Activities include** surveying forest areas to obtain estimates of volume and value of timber for logging operations; crosscutting hardwood trees into logs; and trimming and debarking hardwood trees.

#### 5219-A TIMBER ASSESSOR Forest Assessor

Surveys forest area to obtain estimate of volume and value of trees for woodchips or timber, and to record area conditions for logging, land use and management planning.

Patrols forest area in established pattern and studies area to obtain physical data, using compass and measuring tape. Measures diameter and height of trees in sample area, using tape and clinometer, and estimates marketable wood content, using volume tables. Estimates age and growth from measurement of tree and sections. Writes field notes indicating timber types and sizes, distances, topographic features and existing access. Assists in preparation of maps and reports indicating species, quality, size and estimated yield of timber.

May code data obtained for computer processing.

##### Job Content Factors

###### Workers

FP: GE10-12y PSP2w(B)	IP: T6-12m
or FP: GE11-12y PSP2y(B)	IP: T1m
HC: IRC	RQ: L1

###### Materials

SM: D1 T2	EQ: P2 S1 V2
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###### Functions

MA: A1 D2 R2 M2 L3	
PA: P2 S2 W1 E2	SA: A2 S1

###### Context

EC: L2	TC: A1
SS: 4	SC: 5 (4 y)

LMS: 100 ( 0%SE)

ASIC: 030

#### 5219-B LANDING OPERATOR (LOGGING) Dumpman/woman (Logging)

Cross cuts hardwood trees into logs, and trims and debarks trees.

Operates chainsaw to cut trees into log lengths, and trims branch stubs. Debarks logs using crowbar, axe or spade. Sharpens and maintains chainsaw.

##### Job Content Factors

###### Workers

FP: GE NFR	IP: T3m
HC: R	RQ:

###### Materials

SM: T1	EQ: S2 N1
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###### Functions

MA: D3 R4 L3	
PA: U1 H1 W1 B2 E4	SA: S1

###### Context

EC: L2 C09	TC: A1 R2
SS: 7	SC: 7 (vy)

LMS: 350 ( 0%SE)

ASIC: 030

#### 5219-Z OTHER LOGGING OCCUPATIONS nec

This residual group covers occupations in logging not elsewhere classified in Minor Group 521, e.g.

Chokerman/woman	High Lead System Operator
Horse Snigger	Log Debarker; Bark Stripper
Log Loader	Log Measurer/Grader
Log Trimmer	
Swampy; Log Chaser; Swamper (Logging); Tractor Offsider, Logging	

## **MAJOR GROUP 53**

### **MINING OCCUPATIONS**

Mining Occupations are classified in the following minor groups.

- 530 Underground Mining Occupations (Except Coal)
- 531 Underground Coal Mining Occupations
- 532 Open Cut Mining Occupations
- 533 Fluids and Gas Drilling Occupations
- 534 Mineral Ore Treating Occupations
- 539 Other Mining and Related Occupations

#### *Related Occupations*

- Occupation 2001-A : Geologist
- Occupation 2001-B : Geophysicist
- Unit Group 6801 : Mechanical Earthmoving Plant Operating Occupations
- Occupation 6801-H : Dredge Operator

# 53 MINING OCCUPATIONS

## 530 UNDERGROUND MINING OCCUPATIONS (EXCEPT COAL)

### 5300 FOREMEN/WOMEN/SUPERVISORS, UNDERGROUND MINING (EXCEPT COAL)

5300-A Foreman/woman, Underground Mine (Except Coal Mine)  
5300-B Shift Boss, Underground Mine (Except Coal Mine)  
5300-C Supervisor, Mine Ventilation  
5300-Z Foremen/women/Supervisors, Underground Mining (Except Coal) nec

### 5301 ALL-ROUND UNDERGROUND MINING OCCUPATIONS (EXCEPT COAL)

5301-A Stope Miner

### 5302 DRILL EQUIPMENT OPERATORS, UNDERGROUND MINING (EXCEPT COAL)

5302-A Jumbo Drill Operator  
5302-B Raise Boring Machine Operator  
5302-C Long Hole Drill Operator  
5302-D Development Machine Miner  
5302-Z Drill Equipment Operators, Underground Mining (Except Coal) nec

### 5303 BLASTING OCCUPATIONS, UNDERGROUND MINING (EXCEPT COAL)

5303-A Shot-Firer (Underground Mining)

### 5304 EQUIPMENT OPERATORS, UNDERGROUND MINING (EXCEPT COAL) (OTHER)

5304-A Diesel Loader Operator  
5304-B Mechanical Bogger Driver  
5304-C Locomotive Driver, Underground Mine  
5304-D Scraper Operator, Underground Mine  
5304-Z Equipment Operators, Underground Mining (Except Coal) (Other) nec

### 5309 OTHER UNDERGROUND MINING OCCUPATIONS (EXCEPT COAL)

5309-A Timberman/woman (Underground Non-Coal Mine)  
5309-B Hydraulic Fill Operator  
5309-C Ventilation Man/Woman  
5309-D Scaler  
5309-E Grizzlyman/woman  
5309-F Jumbo Operator's Assistant  
5309-Z Underground Mining Occupations (Except Coal) nec

## 532 OPEN CUT MINING OCCUPATIONS

### 5320 FOREMEN/WOMEN/SUPERVISORS, OPEN CUT MINING

5320-A Foreman/woman, Ore Grading  
5320-B Foreman/woman, Production Drilling (Open Cut Mining)  
5320-C Foreman/woman, Blasting  
5320-D Shift Foreman/woman, Open Cut Mine  
5320-E Dragline Foreman/woman, Open Cut Mine  
5320-F Open Cut Examiner  
5320-Z Foremen/women/Supervisors, Open Cut Mining nec

### 5321 DRILL EQUIPMENT OPERATORS, OPEN CUT MINING

5321-A Rotary Drill Operator  
5321-B Coal Seam Driller  
5321-Z Drill Equipment Operators, Open Cut Mining nec

## 531 UNDERGROUND COAL MINING OCCUPATIONS

### 5310 FOREMEN/WOMEN/SUPERVISORS, UNDERGROUND COAL MINING

5310-A Undermanager, Underground Coal Mine  
5310-B Deputy, Underground Coal Mine  
5310-Z Foremen/women/Supervisors, Underground Coal Mining nec

### 5311 CUTTING AND TRANSPORTING OCCUPATIONS, UNDERGROUND COAL MINING

5311-A Continuous Miner Driver, Underground Coal Mine  
5311-B Shuttle Car Driver, Underground Coal Mine  
5311-C Conveyor Belt Operator, Underground Coal Mine  
5311-D Longwall Miner Operator, Underground Coal Mine  
5311-Z Cutting and Transporting Occupations, Underground Coal Mining nec

### 5319 OTHER UNDERGROUND COAL MINING OCCUPATIONS

5319-A Timberman/woman, Underground Coal Mine  
5319-B Cable Hand, Underground Coal Mine  
5319-Z Underground Coal Mining Occupations nec

### 5322 BLASTING OCCUPATIONS, OPEN CUT MINING

5322-A Shot-Firer (Open Cut Mining)  
5322-Z Blasting Occupations, Open Cut Mining nec

### 5323 EXCAVATING AND HAULING OCCUPATIONS, OPEN CUT MINING

5323-A Dragline Operator, Open Cut Mining  
5323-B Bucketwheel-Excavator Operator  
5323-C Shovel Operator  
5323-D Haul Truck Operator  
5323-Z Excavating and Hauling Occupations, Open Cut Mining nec

### 5324 ASSISTANTS AND TRAINEES, OPEN CUT MINING

5324-A Rotary Driller's Offsider  
5324-B Shovel Greaser  
5324-C Dragline Oiler  
5324-D Assistant Shot-Firer  
5324-Z Assistants and Trainees, Open Cut Mining nec

## 533 FLUIDS AND GAS DRILLING OCCUPATIONS

### 5330 FOREMEN/WOMEN/SUPERVISORS, FLUIDS DRILLING

5330-A Toolpusher  
5330-B Foreman/woman, Oil and Natural Gas Well Services  
5330-C Acidising and Formation Fracturing Supervisor  
5330-Z Foremen/women/Supervisors, Fluids Drilling nec

### 5331 DRILL EQUIPMENT OPERATORS, FLUIDS DRILLING

5331-A Directional Drill Operator  
5331-B Drill Operator, Fluids Drilling  
5331-C Water Well Driller  
5331-Z Drill Equipment Operators, Fluids Drilling nec

### 5332 EQUIPMENT OPERATORS, FLUIDS DRILLING (OTHER)

5332-A Power Tong Operator  
5332-B Wireline Operator (Electric Line)  
5332-C Fishing Tool Operator  
5332-D Reeled Tubing Operator  
5332-E Snubbing Unit Operator  
5332-F Service Rig Operator  
5332-G Cementer, Oil Well  
5332-H Well Treatment Blender Operator  
5332-I Well Treatment Pump Operator  
5332-J Gas Tester  
5332-K Pipe Tester  
5332-L Shooter, Seismograph  
5332-M Vibrator Operator, Seismic Prospecting  
5332-Z Equipment Operators, Fluids Drilling (Other) nec

### 5333 DIVERS (FLUIDS DRILLING)

5333-A Saturation Technician  
5333-B Offshore Diver  
5333-C Onshore Diver

### 5334 TRAINEE OCCUPATIONS, FLUIDS DRILLING

5334-A Wireline Operator Trainee (Electric Line)  
5334-B Reeled Tubing Operator Trainee  
5334-C Water Well Driller's Assistant  
5334-Z Trainee Occupations, Fluids Drilling nec

### 5335 FLUIDS DRILLING SUPPORT OCCUPATIONS

5335-A Roustabout (Fluids Drilling)  
5335-B Roughneck  
5335-C Sample Washer  
5335-D Shooter Helper  
5335-E Observer Helper, Gravity Prospecting  
5335-F Observer Helper, Seismic Prospecting  
5335-Z Fluids Drilling Support Occupations nec

### 5339 OTHER FLUIDS AND GAS DRILLING OCCUPATIONS

5339-A Torque/Turn Computer Operator  
5339-B Oil Pipe Inspector  
5339-Z Fluids and Gas Drilling Occupations nec

## 539 OTHER MINING AND RELATED OCCUPATIONS

### 5390 MINE CAGE OPERATING OCCUPATIONS

5390-A Winding Engine Driver  
5390-B Platman/woman  
5390-C Skipman/woman  
5390-D Braceman/woman (Mine Cage)  
5390-Z Mine Cage Operating Occupations nec

### 5391 MINERAL EXPLORATION DRILLING OCCUPATIONS

5391-A Diamond Driller (Mineral Exploration)  
5391-Z Mineral Exploration Drilling Occupations nec

### 5392 MINERAL EXPLORATION DRILLING TRAINEE OCCUPATIONS

5392-A Diamond Driller's Assistant (Mineral Exploration)

## 534 MINERAL ORE TREATING OCCUPATIONS

### 5340 FOREMEN/WOMEN/SUPERVISORS, MINERAL ORE TREATING OCCUPATIONS

5340-A Foreman/woman, Crushing and Screening Occupations (Mineral Ores)  
5340-B Foreman/woman, Grinding Occupations (Mineral Ores)  
5340-C Foreman/woman, Washing, Mixing, Separating and Filtering Occupations (Mineral Ores)  
5340-D Foreman/woman, Roasting Occupations (Mineral Ores)  
5340-E Foreman/woman, Coal Preparation Plant  
5340-Z Foremen/women/Supervisors, Mineral Ore Treating Occupations nec

### 5341 CONTROL ROOM OPERATORS, MINERAL ORE TREATING

5341-A Deputy Dredge Master/Mistress (Sand Mining)  
5341-B Central Control Room Operator, Ore Processing  
5341-C Crusher Control Room Operator (Primary)  
5341-D Control Room Operator, Coal Preparation Plant  
5341-Z Control Room Operators, Mineral Ore Treating nec

### 5342 CRUSHING, GRINDING AND SCREENING OCCUPATIONS (MINERAL ORES)

5342-A Leading Hand, Primary Crusher  
5342-B Crusher Attendant  
5342-C Grinding Mill Operator  
5342-D Screen Attendant  
5342-Z Crushing, Grinding and Screening Occupations (Mineral Ores) nec

### 5343 WASHING, MIXING, SEPARATING AND FILTERING OCCUPATIONS (MINERAL ORES)

5343-A Wash Plant Operator  
5343-B Thickener Operator  
5343-C Flotation Operator  
5343-D Solutionist  
5343-E Precipitator Attendant  
5343-F Filter Operator (Mineral Ore Treating)  
5343-G Magnetic Separator Attendant  
5343-H Gravity Separator Attendant  
5343-I Table Operator (Ore Treating)  
5343-J Alluvial Separation Plant Operator  
5343-K Dry Mill Separation Operator  
5343-Z Washing, Mixing, Separating and Filtering Occupations (Mineral Ores) nec

### 5344 ROASTING OCCUPATIONS (MINERAL ORES)

5344-A Roaster Operator  
5344-B Furnace Operator (Pellet Plant)  
5344-C Bottom Floor Operator (Pellet Plant)  
5344-Z Roasting Occupations (Mineral Ores) nec

### 5345 TESTING AND SAMPLING OCCUPATIONS, MINERAL ORE TREATING

5345-A Iron Pellet Tester  
5345-Z Testing and Sampling Occupations, Mineral Ore Treating nec

### 5349 OTHER MINERAL ORE TREATING OCCUPATIONS

5349-A Pellet Drum/Disc Operator  
5349-B Amalgamator Operator  
5349-C Reagent Attendant  
5349-D Surface Hydraulic Fill Operator  
5349-E Screen and Load-out Attendant (Pellet Plant)  
5349-F Clarifier Operator  
5349-Z Mineral Ore Treating Occupations nec

### 5393 MINE SAMPLING OCCUPATIONS

5393-A Mine Sampler (Underground, Non-Coal)  
5393-B Coal Sampler  
5393-C Mine Sampler (Open Cut, Non-Coal)  
5393-D Coal Sample Tester  
5393-Z Mine Sampling Occupations nec

### 5399 OTHER MINING AND RELATED OCCUPATIONS

5399-A Lampman/woman  
5399-Z Mining and Related Occupations nec

## MINOR GROUP 530

### UNDERGROUND MINING OCCUPATIONS (EXCEPT COAL)

Underground Mining Occupations (Except Coal) are classified in the following unit groups.

- 5300 Foremen/women/Supervisors, Underground Mining (Except Coal)
- 5301 All-Round Underground Mining Occupations (Except Coal)
- 5302 Drill Equipment Operators, Underground Mining (Except Coal)
- 5303 Blasting Occupations, Underground Mining (Except Coal)
- 5304 Equipment Operators, Underground Mining (Except Coal)(Other)
- 5309 Other Underground Mining Occupations (Except Coal)

It should be noted that duties allocated to occupations in this group are affected by such factors as company policy and the size of the mining venture. For example, the classification may not appear detailed enough to cover the occupations that occur in a large mining operation whereas it may be the case that a single worker performs duties relating to a wide range of occupations in a smaller mine. Hence a worker may perform duties relating to more than one occupation or the more specialised duties of a single occupation as described here.

#### 5300 FOREMEN/WOMEN/SUPERVISORS, UNDERGROUND MINING (EXCEPT COAL)

This unit group covers occupations concerned with supervising and co-ordinating activities of workers engaged in underground hard- rock mining and related support occupations.

**Entry Requirements** Year 9-10 and 5-10 years' experience plus an appropriate State Mines Department supervision licence. However, mine ventilation supervisors may require a degree in mining engineering plus 3 year's experience to work in very large mines. An explosives handling licence is also required in cases where blasting activities are involved.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### *Related Occupations*

Occupation 6803-B : Platelayer

#### 5300-A FOREMAN/WOMAN, UNDERGROUND MINE (EXCEPT COAL MINE)

Supervises and co-ordinates activities of one or more shift bosses in an underground hard-rock mine, to ensure efficiency and safety of total operations of mine.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Assists underground superintendent in consulting with mining engineers and geologists as to organisation and planning of mining operation. Directs shift boss(es) or equivalent to supervise particular areas of mine or specific groups of workers.

May be involved in the organisation of mine rescue operations and in the training of mine rescue teams.

#### *Job Content Factors*

##### *Workers*

FP: GE9-10y

IP: T1-6m E7-10y

HC: REC

RQ: Q2 U2 D1 V1

##### *Materials*

SM: D2 P1 T2

EQ: M2

##### *Functions*

MA: A2 P1 D2 R2 M3 L2

PA: U2 C2 H2 W1 B2 E3

SA: S1 B1 R3-4

##### *Context*

EC: L1 C07,05,02

SS: 9

TC: A1 I1

SC: 9 ( 0y)

LMS: 10-200 (0 %SE)

ASIC: 11,15

**5300-B SHIFT BOSS, UNDERGROUND MINE (EXCEPT COAL MINE)**  
**Shift Supervisor, Underground (Non-Coal Mine); Supervisor, Underground (Non-Coal Mine)**

Supervises and co-ordinates activities of workers engaged in drilling, blasting, bogging-out, filling and related support occupations in underground hard-rock mines under direction of the foreman/woman to ensure compliance with mine safety regulations and production schedules.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Patrols assigned area of mine, supervising operations of underground workers and ensuring that supplies of equipment and materials are available as required.

**Job Content Factors**

<b>Workers</b>	
FP: GE9-10y	IP: T1-6m E5y
HC: REC	RQ: Q2 U2 D1 V1 A2
<b>Materials</b>	
SM: D2 P1 T2	EQ: S2 N2 M2
<b>Functions</b>	
MA: A2 P1 D2 R2 M3 L2	
PA: U2 C2 H2 W1 B2 E3	SA: L1 B1 R3
<b>Context</b>	
EC: L1 C07,05,02	TC: A1 I1
SS: 8	SC: 8 ( 0y)
LMS: 10-200 (0 %SE)	ASIC: 11,15

**5300-C SUPERVISOR, MINE VENTILATION**  
**Mine Ventilation Engineer; Mine Ventilation Officer**

Supervises and co-ordinates activities of workers concerned

with the ventilation of an underground hard-rock mine.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN, supervising and co-ordinating activities of workers engaged in installing, repairing and maintaining underground ventilation system in mine. Ensures that primary and secondary air flows and dust control procedures are in accordance with established and regulated standards.

May be required to take dust samples and determine air velocity requirements using sampling equipment and an anemometer. May be involved in setting up computer simulation model of mine ventilation system.

**Job Content Factors**

<b>Workers</b>	
FP: GE9-10y PSP	IP: T1-6m E5y
or FP: GE12y PSP4y(D)	IP: T1y E3y
HC: REC	RQ: Q2 U2 D1 V2
<b>Materials</b>	
SM: D2 P1 T2	EQ: S2 M2
<b>Functions</b>	
MA: A1 P1 D2 R3 M3 L2	
PA: U2 C2 H2 W1 B1 E3	SA: S1 B1 R4-3
<b>Context</b>	
EC: L1 C05,02,06	TC: A1 I1
SS: 8	SC: 8 ( 0y)
LMS: 10-200 (0 %SE)	ASIC: 11,15

**5300-Z FOREMEN/WOMEN/SUPERVISORS, UNDERGROUND MINING (EXCEPT COAL) nec**

This residual group covers underground hard rock mining supervisors not elsewhere classified in Unit Group 5300, e.g.

Services Foreman/woman (Underground Non-Coal Mining)

**5301 ALL-ROUND UNDERGROUND MINING OCCUPATIONS (EXCEPT COAL)**

This unit group covers occupations concerned with performing a combination of drilling, blasting and shovelling activities to allow access to ore veins by production machinery or to remove pockets of ore in locations inaccessible to production mining machinery, and with carrying out chemical or cement grouting operations to stabilise fault areas.

**Entry Requirements** 2-3 years' experience plus an explosives handling licence.

**Activities include** drilling, blasting, operating ore haulage equipment, timbering and roof bolting.

**5301-A STOPE MINER**  
**Stope Machine Miner**

Mines ore a in underground mine, performing any combination of the following duties in areas inaccessible to high production equipment.

Operates air leg machine to bore blasting holes in working face according to drill pattern. Charges and sets off explosives to break down materials. Conveys broken material to stope ore pass with scraper or compressed air powered loader or bulldozer. Shovels broken material into stope ore pass. Cuts channel under working face to facilitate blasting, using pick or by operating cutting machine. Installs timbers or roof bolts to support stope walls and backs.

May specialise in development work, such as opening up new shafts, drives, air vents, rises, winzes or crib rooms to facilitate mining, and be designated accordingly, e.g.

**Development Stope Miner**

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T6-12m E2-3y
HC: RC	RQ: S1 D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: P1 S1 N1 M1
<b>Functions</b>	
MA: P2 D2 R3 M3 L2	
PA: U1 C1 H2 W1 B1 E4	SA: S1
<b>Context</b>	
EC: L1 C05,05,07	TC: A1 I1 R2
SS: 7	SC: 8 ( 2y)
LMS: 100-400 (0 %SE)	ASIC: 11,15

### 5302 DRILL EQUIPMENT OPERATORS, UNDERGROUND MINING (EXCEPT COAL)

This unit group covers occupations concerned with drilling blasting holes and raise bore holes in underground hard-rock mines.

**Entry Requirements** Year 9 and 1-3 years' experience plus an explosives handling licence if involved in blasting activities.

**Activities include** operating drills in order to bore blasting holes in rock, or in construction of tunnels, shafts, drives, levels, rises or winzes.

#### 5302-A JUMBO DRILL OPERATOR

Operates mobile electric, hydraulic or pneumatic drilling machine to bore blasting holes in rock or ore.

Drives drilling machine to work site. Follows established procedures regarding location and angle at which holes are to be drilled, and marks boundaries of cut and hole locations in prescribed pattern. Positions machine according to predetermined survey or grade lines, or according to hand signals of assistant. Inserts drill steel or bit into chuck. Moves lever to lower or raise drill, and manipulates electric, hydraulic or air controls to start and advance drill into ore or rock. Observes, or directs assistant to observe, water hoses and power cable or air hoses, to prevent damage when moving or repositioning machine to bore additional holes.

May load holes with explosives, tamp charge and detonate blast if appropriately licensed.

##### Job Content Factors

###### Workers

FP: GE9y IP: T3m E1-2y  
HC: RSC RQ: L1 S2 D1 V1

###### Materials

SM: D2 P2 T1 EQ: S1 N2 M1 V1

###### Functions

MA: P2 D2 R3 M3 L3  
PA: P2 U2 C1 H1 S2 W1 E4 SA: S1 B2 R4

###### Context

EC: L1 C02,04,05 TC: A1 I1 R2  
SS: 7 SC: 8 ( 2y)

LMS: 100-400 (0 %SE)

ASIC: 11,15

#### 5302-B RAISE BORING MACHINE OPERATOR Raise Drill Operator

Operates raise boring machine that reams a pilot hole to greater diameter to create a vertical or angled rise between drives or levels in a mine.

Connects water lines, air hoses and lubricators to raise boring machine. Moves hand levers and valves that activate pneumatic pistons and jacks to set drill at designated angle. Drills pilot hole, constantly monitoring meters and gauges that indicate pressure and torque, ensuring that drill bit follows designated path and that safe limits of operation are not exceeded. Directs other workers to uncouple pilot drill bit and to position reamer under drill stem. Advances drill stem to engage threads with those on reamer according to directions of other workers. Applies driving power to pull drilling string upwards, forcing blades on reamer to cut into rock. Constantly monitors pressure and torque indicating meters, and adjusts pressure and speed for optimum operation. Carries out normal operating and maintenance checks and adjustments.

##### Job Content Factors

###### Workers

FP: GE9y IP: T6m E2-3y  
HC: RSC RQ: D1 V1

##### Materials

SM: D2 P2 T1 EQ: P2 S1 N2 M1

##### Functions

MA: D2 R3 M3 L3  
PA: U2 C1 H1 W1 E4 SA: S1 B2 R4

##### Context

EC: L1 C02,04,05 TC: A1 I1 R2  
SS: 7 SC: 8 ( 2y)

LMS: 100-400 (0 %SE)

ASIC: 11,15

#### 5302-C LONG HOLE DRILL OPERATOR Air Track Operator

Operates rig, skid or bar mounted or rubber tyred percussion drill to bore long blasting holes and holes for ground support in underground mine.

Follows instructions and sketches to determine location, direction, number and length of holes to be drilled. Secures rig against walls and floor of drive or rises to maintain required position, using jacks and wedges. Fastens drill to rig with clamps and bolts. Aligns drill on surveyed direction line, using spirit level protractor. Locks drill in position by tightening nuts and bolts on clamps. Couples air and water lines to connections on drill, using wrenches. Installs bit in drill. Pulls lever and turns dial to start drill. Adjusts angle of drill as required using spanners. Observes operation of drill, adds extension steels and adjusts drilling speed until required depth is reached. Takes samples of drillings by coring or by collecting sludge oozing from drill hole. Maintains drill by oiling and cleaning, and makes minor repairs to equipment.

##### Job Content Factors

###### Workers

FP: GE9y IP: T3-4m E2-3y  
HC: RC RQ: D1 V1

###### Materials

SM: D2 T1 EQ: S1 N2 M1

###### Functions

MA: P2 D2 R3 M3 L2  
PA: U2 C1 H1 S2 W1 E4 SA: S1

###### Context

EC: L1 C02,04,05 TC: A1 I1 R2  
SS: 7 SC: 8 ( 2y)

LMS: 100-400 (0 %SE)

ASIC: 11,15

#### 5302-D DEVELOPMENT MACHINE MINER Development Miner; Machine Miner; Rock Drill Operator

Operates drill supported by air leg, to drill through rock in construction of tunnels, shafts, drives, levels, rises or winzes, and through ore in narrow veins where ore is inaccessible to jumbo equipment.

Couples lubricator to air line, and water hoses to supply lines. Carries drill and air leg to working face. Erects support structures in working area. Positions and adjusts height of air leg by regulating air valves. Fits drill steel in chuck of drill, manually. Turns hand valves to regulate compressed air flow to activate drill. Advances drill into rock, either by pushing

manually, or using air leg, or weight of drill when drilling downwards. Regulates flow of water to reduce amount of dust and to remove debris from hole, by turning hand valve. Replaces blunt drill steels. Inserts longer drill steels as hole deepens.

May be designated according to type of project, e.g.  
Level Miner                      Rise Miner  
Shaft Sinker/Miner              Winze Sinker/Miner

*Job Content Factors*

<i>Workers</i>	
FP: GE9y	IP: T3-6m E2-3y
HC: RC	RQ: S2 D1 V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 N2 M1

<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 H1 W1 B1 E4	SA: S1
<i>Context</i>	
EC: L1 C02.03.07	TC: A1 I1 R2
SS: 7	SC: 8 ( 2y)
<i>LMS: 100-400 (0 %SE)</i>	
<i>ASIC: 11,15</i>	

**5302-Z              DRILL EQUIPMENT OPERATORS, UNDERGROUND MINING (EXCEPT COAL) nec**

This residual group covers drilling occupations in underground hard-rock mines not elsewhere classified in Unit Group 5302.

**5303    BLASTING OCCUPATIONS, UNDERGROUND MINING (EXCEPT COAL)**

This unit group covers occupations concerned with preparing, charging and detonating explosives in underground mines.

**Entry Requirements** Year 9 and 2-3 years' experience plus an explosives handling licence.

**Activities include** assisting in blasting operations; examining diagrams; inserting explosives; attaching fuses; filling and tamping holes; and firing at designated times using electric detonation or fuse lighting techniques.

**5303-A              SHOT-FIRER (UNDERGROUND MINING)**  
**Powder Monkey (Underground Mining)**

Charges up previously drilled holes and detonates explosives to break ore bearing rock from working face in mine.

Follows instructions regarding pre-arranged blasting procedures, position and number of explosions, required quantity and type of explosives, and delays required. Inserts high explosive and primers into drilled holes. Attaches fuses, wires and delays to primers and inserts them into holes. Fills and tamps holes with rock dust, clay, sand or other materials. Splits end of fuse to facilitate igniting or connects detonator wire to electrical exploder or power source. Inserts key into exploder and turns to operate charging mechanism. Checks that circuit is complete during electrical exploding. Lights fuse or presses button of exploder to fire explosive. Blasts at stipulated firing time.

May wait for air to clear and dust to settle, ventilate area around working face by rigging ventilation bag to fresh air fan, rigging up water hoses and washing down broken

material to settle dust. May knock off seats or loose rocks and slabs from roof and walls around working face, using hand held pinch bars. May operate front end loader to clean up loose material from stope. May do development work and be designated accordingly, e.g.  
Powder Monkey, Development

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE9y	IP: T6-12m E2-3y
HC: RC	RQ: S1 U2 D1 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1
<i>Functions</i>	
MA: P1 D2 R3 M3 L2	
PA: U1 C1 H1 W1 B1 E3	SA: A1 S2
<i>Context</i>	
EC: L1 C05.06.07	TC: A1 I1
SS: 8	SC: 8 ( 0y)
<i>LMS: 100-400 (0 %SE)</i>	
<i>ASIC: 11,15</i>	

**5304    EQUIPMENT OPERATORS, UNDERGROUND MINING (EXCEPT COAL) (OTHER)**

This unit group covers occupations concerned with preparing, charging and detonating explosives in underground mines.

**Entry Requirements** 3 months' experience in some cases, plus an explosives handling licence where blasting activities are involved.

**Activities include** assisting in blasting operations; examining diagrams; inserting explosives; attaching fuses; filling and tamping holes; and firing at designated times using electric detonation or fuse lighting techniques.

#### 5304-A DIESEL LOADER OPERATOR

Drives crawler mounted or rubber tyred diesel or electric front-end loader to load materials such as ore or rock into trucks or into an ore or waste pass in underground mine.

Drives machine into pile of material broken from working face. Advances machine to gather material and convey it into mine truck, or into ore or waste pass. Stops gathering action when car or pass is full. Prises off loose material from roof, using bucket.

May raise other workers on bucket to facilitate access to high places.

##### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T2m E3m
HC: RC	RQ: D1 V1
<i>Materials</i>	
SM: P2 T1	EQ: V1
<i>Functions</i>	
MA: D3 R4 L3	
PA: C1 S1 E3	SA: S1
<i>Context</i>	
EC: L1 C02,04,05	TC: A1 I1 R2
SS: 7	SC: 7 (0y)
LMS: 100-400 (0 %SE)	ASIC: 11,15

#### 5304-B MECHANICAL BOGGER DRIVER

Operates compressed air powered shovel that loads ore-bearing rock or waste into trucks in underground mines.

Checks work area for loose rock. Bars down. Makes air hose connections and starts machine. Moves rubber tyred, tracked or rail mounted machine to work area. Moves levers to force scoop of shovel into pile, and to lift and rotate scoop arm to one side or lift scoop to overhead position and dump contents into truck or onto conveyor. Advances track as required if operating rail mounted boggers.

May drive battery powered locomotive to transport ore or waste material from working face to ore pass for dumping. May lubricate, adjust and make minor repairs to machine.

##### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T3m E3m
HC: RC	RQ: D1 V1
<i>Materials</i>	
SM: T1	EQ: S1 N2 V1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 S2 W2 E4	SA: S1
<i>Context</i>	
EC: L1 C04,07,09	TC: A1 I1 R2
SS: 7	SC: 7 (0y)
LMS: 100-400 (0 %SE)	ASIC: 11,15

#### 5304-C LOCOMOTIVE DRIVER, UNDERGROUND MINE Trucker

Drives battery powered locomotive in underground mine, to transport ore or waste material from working face to ore pass.

Drives locomotive and rake of trucks under ore chutes. Ensures that trucks are correctly positioned under chutes in order to be filled with rock and ore. Drives locomotive,

hauling loaded trucks to ore or waste pass. Dumps ore from trucks into ore or waste pass. Re-rails derailed trucks using re-railing device.

May operate controls on chutes to fill trucks with rock and ore.

##### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T2m
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: T1	EQ: N1 V1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 S1 W2 E5	SA: S1
<i>Context</i>	
EC: L1 C02,03,05	TC: A1 I1 R1
SS: 7	SC: 7 (0y)
LMS: 100-400 (0 %SE)	ASIC: 11,15

#### 5304-D SCRAPER OPERATOR, UNDERGROUND MINE

Operates cable drawn scraper that scrapes ore or rock from working face in underground mine.

Checks work area for loose rock. Bars down if necessary. Moves winching equipment into working place. Positions scraper pulleys and anchors eye-bolts firmly to wall, using sledge-hammer. Threads cables through snatch blocks from winch drums to scraper. Attaches scraper to cable. Connects electric power lines or pneumatic hoses and starts winch. Moves levers to activate cable, which drags scraper into face of ore, then drags full scraper to truck, chute, or conveyor for dumping.

##### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1m
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: T1	EQ: S1 N1 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 S2 W1 B1 E4	SA: A1 S2
<i>Context</i>	
EC: L1 C02,04,07	TC: A1 I1 R2
SS: 7	SC: 7 (0y)
LMS: 100-400 (0 %SE)	ASIC: 11,15

#### 5304-Z EQUIPMENT OPERATORS, UNDERGROUND MINING (EXCEPT COAL) (OTHER) nec

This residual group covers equipment operating occupations in underground hard-rock mines not elsewhere classified in Unit Group 5304, e.g.

Underground Truck Driver

### 5309 OTHER UNDERGROUND MINING OCCUPATIONS (EXCEPT COAL)

This residual unit group covers occupations concerned with performing other duties in an underground hard-rock mine, not elsewhere classified in Minor Group 530.

**Activities include** measuring, cutting, fitting, installing and checking timber wall and roof supports, and steel mesh; erecting ventilation doors, cribbing and braces; and adjusting valves controlling the movement of fill.

#### 5309-A TIMBERMAN/WOMAN (UNDERGROUND NON-COAL MINE)

Cuts, fits and installs timber legs, caps and stulls to support roof in underground mine, and repairs existing roof supports, working as part of a team.

Measures and cuts timber legs, caps and stulls to be used as roof supports, using measuring devices and hand or power saw. Directs assistant, aiding with the cutting and positioning of wooden supports. Bore small holes in rock and places small charge of explosives to blast hitches in wall to insert timber. Positions and secures timber supports and caps in place, by inserting wedges, boring holes with hand or power drill and installing bolts using wrench, or mortising joints with saw, chisel or adze. Constructs and erects timber walls, ventilation doors, cribbing or braces. Erects steel wire mesh in designated roof areas.

May specialise in constructing gates and other timbered sections of chutes for removal of dirt from stopes, or in maintaining and repairing mine shaft parts and equipment such as timbers, cage guides and guard rails, and be designated accordingly,

Stope Timberman/woman      Shaft Timberman/woman

##### Job Content Factors

<b>Workers</b>	
FP: GE9y	IP: T6m E2-3y
HC: R	RQ: D1 V1
<b>Materials</b>	
SM: P2 T1	EQ: S1 N1
<b>Functions</b>	
MA: D3 R3 L3	
PA: U1 C1 H1 W1 B2 E4	SA: S1 B2 R4
<b>Context</b>	
EC: L1 C05,07,06	TC: A1 I1
SS: 7	SC: 7 (0y)

LMS: 100-300 (0 %SE)

ASIC: 11,15

#### 5309-B HYDRAULIC FILL OPERATOR Back Fill Operator

Tends equipment that fills stopes with slurry or hydraulic fill to prevent cave-ins and support stope walls.

Opens pipe valves or gates to allow sand and water, or waste material resulting from treatment of ore, to flow or be pumped through pipes into stopes until filled sufficiently to support roof and walls. Adjusts valves to allow excess water to drain off, and slurry to settle. Shuts off valve when fill has reached specified level. Lines walls of stope, and plugs holes and cracks with plastic or burlap bags to prevent fill from leaking out. Signals pump operator, using telephone, to add cement to slurry and to pump mixture through pipe. Opens valve to permit cement mixture to cover top of fill and form a permanent crust. Signals pump operator to flush out pipes with water when hydraulic filling has been completed.

May specialise in preparing stopes to receive hydraulic fill by lining and plugging with plastic, and be designated accordingly, e.g.

Prepman/woman

##### Job Content Factors

<b>Workers</b>	
FP: GE9y	IP: T3m E2-3y
HC: R	RQ: D1 V1 A2
<b>Materials</b>	
SM: P2 T1	EQ: S2 N2
<b>Functions</b>	
MA: P2 D3 R4 L3	
PA: U1 C2 H2 W1 E3	SA: S1
<b>Context</b>	
EC: L1 C06,07,08	TC: A1 I1 R1
SS: 7	SC: 7 (0y)

LMS: 100-300 (0 %SE)

ASIC: 11,15

#### 5309-C VENTILATION MAN/WOMAN Vent Operator

Installs, maintains, repairs and alters underground secondary ventilation system in mine.

Places and positions compressed air or electric fan, to redirect fresh air entering mine through primary ventilation system. Connects compressed air fan to supply line, or requests electrician to connect electric fan to power system. Connects section of air ducts, made from metal sheeting, canvas or synthetic material, to fan by tying with wire or cord. Joins additional section of air ducting by joining devices until system is long enough to reach required area of mine. Connects shaped metal corner pieces to bend ducting around corners. Inserts wire along ducting, and fastens to hooks on walls or roof of passageways, to hold ducting in place. Inspects ducting for tears in material or other damage, and repairs, using patches or needle and thread. Replaces badly damaged sections.

##### Job Content Factors

<b>Workers</b>	
FP: GE9y	IP: T1-3m E6-24m
HC: R	RQ: D1 V1
<b>Materials</b>	
SM: T1	EQ: S1 N2
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 C2 W1 B2 E3	SA: A1 S2
<b>Context</b>	
EC: L1 C05,06,07	TC: A1 I1 R2
SS: 7	SC: 7 (0y)

LMS: 100-300 (0 %SE)

ASIC: 11,15

#### 5309-D SCALER

Removes dangerous protrusions and loose rock from walls and roofs of levels, drives and stopes in underground mine.

Visually inspects walls and roofs of levels, drives or stopes to identify potentially hazardous areas. Scales off loose rock from walls and roofs by striking and prising with pinch bar. Removes large loose rocks from the backs of drives and stopes using mechanical scaling equipment.

**Job Content Factors**

<b>Workers</b>	
FP: GE9y	IP: T1m E3-6m
HC: R	RQ: D1 V1
<b>Materials</b>	
SM: T1	EQ: N1
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 H2 W1 B2 E4	SA: A1 S2
<b>Context</b>	
EC: L1 C05,06,07	TC: A1 I1 R1
SS: 7	SC: 7 ( 0y)
LMS: 100-300 (0 %SE)	ASIC: 11,15

**5309-E GRIZZLYMAN/WOMAN  
Bin Runner**

Runs ore bearing rock through series of ore passes leading to skip loading station, storage location or crusher at lower level in underground mine and frees oversized lumps of ore or rock trapped at grizzly (iron grating).

Pulls levers to start and stop flow of ore through ore passes. Frees lumps of ore or rock, trapped at grizzly, by hand or using pinch bar, to permit free flow of ore or rock into next ore pass or storage point. Breaks oversized lumps, using sledge-hammer or pneumatic drill. Frees ore or rock trapped in ore pass leading to grizzly, using pinch bar or compressed air hose.

**Job Content Factors**

<b>Workers</b>	
FP: GE9y	IP: T1m E3m
HC: R	RQ: D1 V1
<b>Materials</b>	
SM: T1	EQ: N1

**Functions**

MA: D3 R4 L3	
PA: U1 C1 H1 W1 B2 E4	SA: A1 S2
<b>Context</b>	
EC: L1 C03,04,07	TC: A1 I1 R1
SS: 7	SC: 7 ( 0y)

LMS: 100-300 (0 %SE)

ASIC: 11,15

**5309-F JUMBO OPERATOR'S ASSISTANT**

Helps to bore blasting holes for mining, quarrying or construction operations by performing any combination of the following duties.

Signals driller to position mobile drilling machine. Changes bits on drill steels. Pulls water hose and electric cables or air hoses clear of machine treads or wheels. Observes adjacent rock faces and machine operation for indications of unsafe conditions.

**Job Content Factors**

<b>Workers</b>	
FP: GE9y	IP: T1m
HC: R	RQ: D1 V1
<b>Materials</b>	
SM: P2 T1	EQ: S2 M1
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 C1 H1 W1 E4	SA: S1
<b>Context</b>	
EC: L1 C02,06,07	TC: A1 I1 R1
SS: 7	SC: 7 ( 0y)
LMS: 100-300 (0 %SE)	ASIC: 11,15

**5309-Z UNDERGROUND MINING  
OCCUPATIONS (EXCEPT COAL) nec**

This residual group covers other hard-rock mining and related support occupations not elsewhere classified in Minor Group 530, e.g.

Salvage Miner

## MINOR GROUP 531 UNDERGROUND COAL MINING OCCUPATIONS

Underground Coal Mining Occupations are classified in the following unit groups.

- 5310 Foremen/women/Supervisors, Underground Coal Mining
- 5311 Cutting and Transporting Occupations, Underground Coal Mining
- 5319 Other Underground Coal Mining Occupations

It should be noted that duties allocated to occupations in this group are affected by such factors as company policy and the size of the mining venture. For example, the classification may not appear detailed enough to cover the occupations that occur in a large mining operation whereas it may be the case that a single worker performs duties relating to a wide range of occupations in a smaller mine. Hence a worker may perform duties relating to more than one occupation or the more specialised duties of a single occupation as described here.

### 5310 FOREMEN/WOMEN/SUPERVISORS, UNDERGROUND COAL MINING

This unit group covers occupations concerned with supervising and co-ordinating production face crews and personnel engaged in transporting material in underground coal mines.

**Entry Requirements** a State Mines Department Undermanager's or Deputy's certificate for which a period of from 1-5 years' underground mining experience together with appropriate post-secondary preparation is required.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN; ensuring adherence to statutory safety and mining regulations; and ensuring production levels are met and adequate ventilation is provided.

#### 5310-A UNDERMANAGER, UNDERGROUND COAL MINE

Subject to control of mine manager and undermanager-in-charge, supervises and co-ordinates activities of workers engaged in operating power cutting and loading machines to remove coal in underground mines and transfer it to conveyor belts, and in operating conveyor belts to surface processing and storage plants.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Ensures all employed underground comply with requirements of relevant State mining acts and regulations, and is responsible for provision of adequate ventilation and adherence to all other safety features.

May train other employees. May be senior undermanager on day shift and be designated accordingly,

Undermanager-in-Charge, Underground Coal Mine

May supervise and co-ordinate activities of two or more underground coal mine face crews and be designated accordingly,

Assistant Undermanager, Underground Coal Mine;  
Overman/woman, Underground Coal Mine

#### Job Content Factors

##### Workers

FP: GE10-11y PSP2-5y(PPC) / (T)	IP: E3-5y
or FP: GE12y PSP3-4y(D) / (Dip)	IP: E3y
HC: REC	RQ: S1 U2 D1 V2 A2

##### Materials

SM: D2 P1 T2	EQ: S2 N2 M2 V2
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##### Functions

MA: I2 A1 P1 D1 R2 M2 L2	
PA: U2 C2 H2 S2 W1 B2 E2	SA: S1 B1 R4-3

##### Context

EC: L1 C02,05,06	TC: A1 I1 T2
SS: 9	SC: 9 ( 0y)

LMS: 100-200 (0 %SE)

ASIC: 12

#### 5310-B DEPUTY, UNDERGROUND COAL MINE

Subject to control of mine manager, deputy mine manager and undermanager, supervises and co-ordinates activities of one underground coal mine face crew engaged in power cutting and loading coal onto a continuous conveyor belt.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Particularly responsible for safety of one face crew including patrolling continuous conveyor belt, checking ventilation flow, determining and checking noxious gas levels at prescribed intervals, assessing coal dust levels, assessing security of pillar

supports, W-straps or cap supports, assessing danger of possible overhead or side falls and maintaining minimal working space standards.

May prepare and blast approach routes and coal faces, and be designated accordingly, e.g.

Deputy Blaster, Underground Coal Mine

Deputy Shot-Firer, Underground Coal Mine

#### Job Content Factors

##### Workers

FP: GE10-11y PSP1-5y(PPC) / (T)	IP: E1-5y
or FP: GE12y PSP3-4y(D) / (Dip)	IP: E1y
HC: EIR	RQ: S1 U2 D1 V1 A2

##### Materials

SM: D2 P1 T2	EQ: S2 N2 M2 V2
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#### Functions

MA: P2 D2 R3 M3 L2

PA: U2 C2 W1 B2 E2

SA: S1 B1 R4-3

#### Context

EC: L1 C02,04,09

TC: A1 I1

SS: 9

SC: 9 (0y)

LMS: 1000-1500(0 %SE)

ASIC: 12

#### 5310-Z

#### FOREMEN/WOMEN/SUPERVISORS, UNDERGROUND COAL MINING nec

This residual group covers supervisory occupations in underground coal mines not elsewhere classified in Unit Group 5310.

### 5311 CUTTING AND TRANSPORTING OCCUPATIONS, UNDERGROUND COAL MINING

This unit group covers occupations concerned with cutting, transferring and transporting coal in underground production faces and drives.

**Entry Requirements** Year 9-10 plus up to 3 years' experience.

**Activities include** activating continuous mining machines, long wall machines or shuttle cars to hew, transfer and reduce coal; and trimming walls, lifting W-straps and drilling roof bolt holes.

#### 5311-A CONTINUOUS MINER DRIVER, UNDERGROUND COAL MINE Coal Cutting Machineman/woman; Machineman/woman Miner; Machine Miner, Underground Coal Mine

Under supervision, operates self-propelled electric powered continuous mining machine to mine coal from a pit face in an underground coal mine.

Pushes and pulls hand control levers to position mining machine with rotating ripping teeth at working face. Starts and manoeuvres machine to and from coal face. Cuts, gathers and transfers coal to shuttle cars. Adjusts level and position of conveyor discharge at rear of continuous miner, using hand tools and machine controls. Adjusts levers to control height and direction of cut, and to co-ordinate pace of mining with speed or capacity of conveyor belt. Clears, or directs other workers to clear, jammed material from continuous miner, using sledge-hammer and shovel. Monitors gauges and control lights, and inspects cutting teeth to ensure efficient operation. Trims walls and performs related duties to maintain safety and continuity of mining operations.

May lift W-straps by hydraulic means to drive roof and drill holes for roof bolts and epoxy resin anchors, or install crown timbers and roof bolts, or may assist in these duties. May supervise face crew in absence of mine deputy. May carry out general pit work when miner is unavailable. With deputy, may gauge mining conditions.

#### Job Content Factors

##### Workers

FP: GE9-10y	IP: T6m E2-3y
HC: RC	RQ: D1 V1 A1

##### Materials

SM: D2 P2 T1	EQ: S1 N1 M1
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##### Functions

MA: D3 R4 L3	SA: S1 B2 R4
PA: U2 C1 H1 S1 W2 E4	

#### Context

EC: L1 C02,04,09

TC: A1 I1 R2

SS: 7

SC: 8 (2y)

LMS: 1000-3000(0 %SE)

ASIC: 12

#### 5311-B

#### SHUTTLE CAR DRIVER, UNDERGROUND COAL MINE Car Driver, Underground Coal Mine

Operates mobile electric or diesel loading shuttle car to transport shattered coal from a continuous mining machine and transfer it to a conveyor belt.

Drives shuttle car to, and positions it at, discharge end of continuous mining machine. Operates controls to transport and transfer coal to track mounted breaker feeder and continuous conveyor belt, and to regulate shuttle car speed. Performs and assists in minor servicing and repairing of shuttle car.

May rotate position with miner driver at various times. May operate small rubber tyred front-end loader type of vehicle between coal production face and breaker feeder machine and be designated accordingly, e.g.

Loaderman/woman

#### Job Content Factors

##### Workers

FP: GE9-10y	IP: T1-3m E6-24m
HC: R	RQ: D1 V1 A1

##### Materials

SM: P2 T1	EQ: S1 N1 V1
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##### Functions

MA: D3 R4 L3	SA: S1
PA: U2 C1 H2 S1 W2 E4	

##### Context

EC: L1 C02,04,09	TC: A1 I1 R2
SS: 7	SC: 8 (2y)

LMS: 1000-3000(0 %SE)

ASIC: 12

**5311-C CONVEYOR BELT OPERATOR,  
UNDERGROUND COAL MINE**  
Beltman/woman; Boot End Man/Woman;  
Tail End Man/Woman

Operates underground coal reducer and feeder to transfer mined coal from shuttle cars through reducer and via conveyor belt to surface storage bins.

Assists in transferring coal from shuttle cars to coal breaker feeder machines or breaks large lumps of coal to force through grizzly grate on to conveyor belt. Shovels spilt coal onto breaker feeder or conveyor belt. Pulls levers or presses buttons to control flow of coal through breaker feeder or on conveyor belt. Answers telephone at crib room end and passes messages from surface or pit supervisors to production face crew. Ensures rock dust fire dampers are full and in working condition. Cleans round head and boot end and ensures all safety guards are in position. Lubricates conveyor idlers and assists in changing out belts and conveyor idlers. May relieve shuttle car driver. May replace worn rollers in conveyor belt.

**Job Content Factors**

**Workers**

FP: GE9-10y

HC: R

IP: T1m

RQ: D1 V1

**Materials**

SM: P2 T1

EQ: S1 N1 M1 V1

**Functions**

MA: D3 R4 L3

PA: U1 C1 H1 W1 B2 E3

SA: S1

**Context**

EC: L1 C02,09,04

SS: 7

TC: A1 I1 R2

SC: 8 (2y)

LMS: 1000-3000(0 %SE)

ASIC: 12

**5311-D LONGWALL MINER OPERATOR,  
UNDERGROUND COAL MINE**

Operates specialist longwall mining machine which cuts across face of coal seam and supports roof as it cuts.

Operates rail mounted circular revolving cutter through motors and hydraulic controllers, raising cutter on each pass across the face to roof height and cutting coal which falls onto a conveyor designed to transport it away from the face. Indexes the cutter within specific limits to maintain continuous production. Moves longwall mining machine toward the face by actuating a series of hydraulic rams in sections, simultaneously releasing the pressure of other hydraulic rams on the section roof support. Repeats operation across the face until all sections are advanced equally. Ensures rear protective shield remains in place as protection from caving of gaff behind the machine. Listens for unusual sounds to indicate machine malfunctions. Maintains safe working practices at all times.

May be involved in moving longwall miner to new location within pit. May assist in machine lubrication and maintenance.

**Job Content Factors**

**Workers**

FP: GE9-10y

HC: RIC

IP: T6m E3y

RQ: D1 V1 A1

**Materials**

SM: D2 P2 T1

EQ: S1 N1 M1 V1

**Functions**

MA: P2 D2 R3 M3 L3

PA: P2 U1 C1 H2 S2 W2 E4

SA: S1 B2 R4

**Context**

EC: L1 C02,04,09

SS: 7

TC: A1 I1 R2

SC: 8 (2y)

LMS: 1000-3000(0 %SE)

ASIC: 12

**5311-Z CUTTING AND TRANSPORTING  
OCCUPATIONS, UNDERGROUND COAL  
MINING nec**

This residual group covers cutting and transporting occupations in underground coal mines not elsewhere classified in Unit Group 5311.

**5319 OTHER UNDERGROUND COAL MINING OCCUPATIONS**

This residual unit group covers occupations concerned with performing other duties in an underground coal mine, not elsewhere classified in Minor Group 531.

**Activities include** extending and withdrawing conveyor belts; patrolling conveyor belts; extending ventilation pipes; bricking and mortaring disused production drives; supplying materials to production face crews and maintenance personnel; and stone dusting floor and walls of shafts and drives to reduce likelihood of coal dust explosions.

**5319-A TIMBERMAN/WOMAN,  
UNDERGROUND COAL MINE**

Cuts, fits and erects wood or steel support side pillars and cap beams or W-straps, installs mechanical or chemical roof anchor bolts, and erects ventilation brattice cloths.

Carries materials, supplies and equipment to work area. Determines height of side pillar supports needed and shovels out shallow base trench. Using hand or powered tools, saws length of timber required and sledge-hammers support into position with wooden wedges used as additional chocks. Bores holes in roof for W-strap cross supports and anchor bolts, either using continuous mining machine mounted on hydraulic drilling rigs or hand held vernier compressed air drills. Pulls levers to drive mechanical or chemical roof bolts

into roof holes, places W-strap or wooden cross supports in position, and power screws supporting nuts. Staples brattice cloth to side pillars to direct fresh air to face of drive and to conduct contaminated air to return airway.

May spread stone dust over mine approach drives and at or near working faces to minimise possibility of coal dust explosions. May specialise in operating roof drilling machines and be designated accordingly, e.g.

Roof Bolter

**Job Content Factors**

**Workers**

FP: GE9-10y

HC: R

IP: T1-2m E6-12m

RQ: D1 V1

<i>Materials</i>	
SM: P2 T1	EQ: S1 N1 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 H1 W1 B1 E5	SA: S1
<i>Context</i>	
EC: L1 C02,04,09	TC: A1 I1 R2
SS: 7	SC: 7 ( 0y)
LMS: 500-800 (0 %SE)	ASIC: 12

5319-B CABLE HAND, UNDERGROUND COAL MINE

Under control of continuous miner driver, ensures electrical cable does not interfere with paths of continuous mining machines or shuttle cars at underground coal mine work faces, or become snagged in supports or coal ribs.

Takes up position on right hand side of continuous mining machine as it advances to rip coal seam face. Removes trailing electric power cables from likely paths of mining machines or shuttle cars.

May assist timbermen/women in erecting side props and roof support beams or installing W-straps and roof anchor bolts.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE9-10y	IP: T1-2w E6m
HC: R	RQ: D1 V1 A1
<i>Materials</i>	
SM: P2 T1	EQ: S2 N2 V2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 H1 W1 B1 E5	SA: S1
<i>Context</i>	
EC: L1 C02,04,10	TC: A1 I1 R1
SS: 7	SC: 7 ( 0y)
LMS: 1000-3000(0 %SE)	ASIC: 12

5319-Z UNDERGROUND COAL MINING OCCUPATIONS nec

This residual group covers underground coal mining occupations not elsewhere classified in Minor Group 531, e.g.

- Cadet Underground Coal Miner
- Dust Sampler
- Trainee Plant Operator, Underground Coal Mining

## MINOR GROUP 532

### OPEN CUT MINING OCCUPATIONS

Open Cut Mining Occupations are classified in the following unit groups.

- 5320 Foremen/women/Supervisors, Open Cut Mining
- 5321 Drill Equipment Operators, Open Cut Mining
- 5322 Blasting Occupations, Open Cut Mining
- 5323 Excavating and Hauling Occupations, Open Cut Mining
- 5324 Assistants and Trainees, Open Cut Mining

#### *Related Occupation*

Occupation 4030-B : Pit Controller

It should be noted that duties allocated to occupations in this group are affected by such factors as company policy and the size of the mining venture. For example, the classification may not appear detailed enough to cover the occupations that occur in a large mining operation whereas it may be the case that a single worker performs duties relating to a wide range of occupations in a smaller mine. Hence a worker may perform duties relating to more than one occupation or the more specialised duties of a single occupation as described here.

#### 5320 FOREMEN/WOMEN/SUPERVISORS, OPEN CUT MINING

This unit group covers occupations concerned with supervising and co-ordinating activities of workers engaged in open cut mining and related support activities.

**Entry Requirements** Year 9-10 plus 3-10 years' experience. An explosives handling licence is also required in cases where blasting activities are involved, and operators tickets for occupations which involve the operation of particular types of equipment. Open Cut Examiners require an Open Cut Examiner's certificate.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN; ensuring relevant State safety regulations are observed, and that quality of ore/shale mined meets contract specifications; ensuring regular maintenance and repair of equipment is performed, that company/mine production policies are observed and that records and log sheets are compiled; and liaising with professional and management staff in relation to problems, schedules and plans for future production.

#### 5320-A FOREMAN/WOMAN, ORE GRADING Grade Control Foreman/woman; Mine Production Foreman/woman

Co-ordinates activities of face-shovels, haul trucks and materials handling equipment in open cut mine to maintain grade of ore mined, stockpiled and transported within established quality constraints.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Liaises with production foremen/women to ensure that face-shovels are operated as directed by quality control officer. Monitors hourly sample from working faces and plant assays to ensure that material mined remains within pre-determined quality constraints. Remedies discrepancies in ore grades by directing face-shovels to be moved to other location or working face in mine. Calculates grades of ore loaded on each train or truck and adjusts tonnage and grade of ore dumped onto stockpiles

to maintain desired size and mean grade of each stockpile. Assists production foremen/women when required. Attends to industrial relations problems.

May perform grade control function with no direct supervisory duties and be designated accordingly,  
Grade Control Co-ordinator

#### *Job Content Factors*

##### *Workers*

FP: GE9-10y

HC: REC

IP: T1y E3-4y

RQ: L1 S1 U2 D1 V2

##### *Materials*

SM: D2 P1 T2

EQ: P2 S2 N2 M2 V2

##### *Functions*

MA: P1 D2 R2 M3 L2

PA: U1 C2 S2 W1 B2 E2

SA: S1 B1 R4-3

## Context

EC: L1 C04,02,03	TC: A1 I1
SS: 8	SC: 9 ( 2y)

LMS: 10-200 (0 %SE)

ASIC: 11,12,15

### 5320-B FOREMAN/WOMAN, PRODUCTION DRILLING (OPEN CUT MINING)

Drilling Foreman/woman (Open Cut Mining);  
Production Drilling Superintendent (Open Cut Mining)

Supervises and co-ordinates activities of workers engaged in operating a variety of drills to provide holes in which explosives are loaded in open cut mining projects.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Ensures preordering of spares, sale of old rigs and purchase of new rigs in relation to company policy. Liaises with maintenance department to ensure equipment is regularly maintained and faults promptly remedied. Liaises with mine planning department to determine drilling area. Ensures training of workers in section is carried out. Attends to industrial relations problems.

May co-operate with mining engineers in relation to production analyses, the planning of drilling programs and the selection of new equipment, and be designated accordingly, e.g.

Senior Foreman/woman, Production Drilling Occupations

May also perform duties of 5320-C FOREMAN/WOMAN, BLASTING and be designated accordingly,

Drill and Blast Foreman/woman; Drilling and Blasting Foreman/woman;  
Overburden Foreman/woman

## Job Content Factors

<b>Workers</b>	
FP: GE9-10y	IP: T1y E3-4y
HC: REC	RQ: S2 U2 D1 V2 A2
<b>Materials</b>	
SM: D2 P1 T2	EQ: P2 S2 N2 M2 V2
<b>Functions</b>	
MA: P1 D2 R2 M3 L2	
PA: P2 U2 C2 S2 W1 E2	SA: S1 B1 R4-3
<b>Context</b>	
EC: L2 C02,03,04	TC: A1 I1
SS: 8	SC: 9 ( 2y)

LMS: 10-200 (0 %SE)

ASIC: 11,12,15

### 5320-C FOREMAN/WOMAN, BLASTING

Blasting Foreman/woman

Supervises and co-ordinates activities of workers engaged in preparing, placing and detonating explosives to break overburden and/or coal in open cut mine.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Ensures strict adherence to safe operating procedures involved in mixing, loading and firing of explosives. Determines hole loading requirements to ensure effective and economic blasting. Maintains daily records of explosives removed from magazines. Attends to industrial relations problems.

May co-operate with mining engineers to plan blasting programs and be designated accordingly, e.g.

Senior Foreman/woman, Blasting

## Job Content Factors

<b>Workers</b>	
FP: GE9-10y	IP: T1y E3-4y
HC: REC	RQ: S1 U2 D1 V2 A2
<b>Materials</b>	
SM: D2 P1 T2	EQ: S2 N2 M2 V2
<b>Functions</b>	
MA: P1 D2 R3 M3 L2	
PA: U2 C2 S2 W1 E2	SA: S1 B1 R4

## Context

EC: L2 C02,03,04	TC: A1 I1
SS: 8	SC: 9 ( 2y)

LMS: 10-200 (0 %SE)

ASIC: 11,12,15

### 5320-D SHIFT FOREMAN/WOMAN, OPEN CUT MINE

Mine Production Shift Foreman/woman; Pit Foreman/woman, Open Cut Mine; Shift Boss, Open Cut Mine; Shift Supervisor, Open Cut Mine

Supervises and co-ordinates activities of shift workers operating face-shovels, haul trucks and other earthmoving equipment, and performing general labouring duties, to transport material from working face in open cut mine to rail loadout or to ore crusher for further processing.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Under direction, is responsible for the correct building of waste dumps. Controls and directs building of roads according to instructions. Allocates workers and equipment to pre-determined duties and locations. Ensures that production schedule is maintained. Liaises with mining engineers and ore grading foremen/women to ascertain which areas of mine to work. Ensures that all safety procedures and regulations are observed. Attends to industrial relations problems.

May train new operatives. May supervise and co-ordinate activities of workers operating primary crushing plant.

## Job Content Factors

<b>Workers</b>	
FP: GE9-10y	IP: T1y E3-4y
HC: REC	RQ: S2 U2 D1 V2
<b>Materials</b>	
SM: D2 P1 T2	EQ: P2 S2 N2 V2
<b>Functions</b>	
MA: P1 D2 R2 M3 L2	
PA: U2 C2 S2 W2 E2	SA: L1 B1 R4-3
<b>Context</b>	
EC: L2 C02,04,06	TC: A1 I1
SS: 8	SC: 9 ( 2y)

LMS: 10-200 (0 %SE)

ASIC: 11,12,15

### 5320-E DRAGLINE FOREMAN/WOMAN, OPEN CUT MINE

Stripping Foreman/woman; Stripping Supervisor

Supervises and schedules program of operations of draglines used to expose open cut coal.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Supervises dragline operators removing overburden and coal. Supervises workers and equipment on spoilpile reclamation. Liaises with maintenance personnel to provide efficient operation of equipment. Assists in providing safe working conditions and attending to industrial relations problems.

May supervise train loadings, security and other activities on weekends, including scraper operations. May be designated according to level of responsibility, e.g.

Senior Dragline Foreman/woman

## Job Content Factors

<b>Workers</b>	
FP: GE9-10y	IP: T2m E4-10y
HC: REC	RQ: S1 U2 D1 V2
<b>Materials</b>	
SM: D2 P1 T2	EQ: M2 V2
<b>Functions</b>	
MA: P1 D2 R2 M3 L2	
PA: U2 C2 S2 W1 B2 E2	SA: S1 B1 R4-3

## Context

EC: L3 C02,04,06  
SS: 8

TC: A1 I1  
SC: 9 ( 2y)

LMS: 10-200 (0 %SE)

ASIC: 11,12,15

## 5320-F

### OPEN CUT EXAMINER Open Cut Safety Supervisor

Inspects sides of pit and general safety of open cut excavations in coal mines, and supervises general duties of shot-firer as required by relevant State coal mining legislation.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Particularly responsible for ensuring relevant State safety regulations are observed. Attends to industrial relations problems.

May perform operational tasks of 5322-A SHOT-FIRER (OPEN CUT MINING). May assume responsibilities of mine manager in his/her absence.

## Job Content Factors

## Workers

FP: GE9-10y PSP1y(PPC)  
HC: REC

IP: T1y E5-6y  
RQ: S1 U2 D1 V1 A2

## Materials

SM: D2 P1 T2

EQ: P2 S2 N2 V2

## Functions

MA: P1 D2 R2 M3 L2  
PA: P2 U2 C2 W1 B1 E2

SA: S1 B1 R4-3

## Context

EC: L2 C02,06,13  
SS: 8

TC: A1 I1  
SC: 9 ( 2y)

LMS: 10-200 (0 %SE)

ASIC: 11,12,15

## 5320-Z

### FOREMEN/WOMEN/SUPERVISORS, OPEN CUT MINING nec

This residual group covers supervisory occupations in open cut mines not elsewhere classified in Unit Group 5320.

## 5321 DRILL EQUIPMENT OPERATORS, OPEN CUT MINING

This unit group covers occupations concerned with operating various rotary drills to prepare blasting shot holes in open cut mines or quarries.

**Entry Requirements** Year 9-10 plus 1-2 years' experience.

**Activities include** operating electric or diesel drag-mounted rotary drill to bore blast holes in open cut mine; and operating small tracked or truck-mounted rotary drilling rig to bore small shot holes in open cut mines for explosives to fragment coal seams.

## 5321-A

### ROTARY DRILL OPERATOR Drill Grader; Driller, Open Cut Mining; Machine Drillman/woman

Operates electric or diesel drag-mounted rotary drill to bore blast holes in open cut mine.

Determines location, number and length of holes to be drilled by following drill pattern laid out by surveyors and marked by pegs. Checks equipment prior to starting-up. Ensures that levels of lubricating fluid and coolant water are sufficient. Pushes buttons to engage power flow and to start compressors. Walks rig to designated drill site. Observes hand signals from offside to position rig directly over survey peg. Pushes levers to operate hydraulic jacks to level and stabilise drill, observing clinometer to ensure that drill is correctly levelled. Adjusts angle of derrick as required. Uses lever and buttons to hoist and rack drill rods, if required, when drill is being moved to new location. Switches on water injection pumps to operate spray of water from drill bit to lift slurry to surface. Switches on fans to cool radiator and hydraulic fluid. Directs assistant to position drill bit, and operates controls to couple bit to drill pipe. Uses hand clutch to engage drill and start rotation. Adjusts speed of rotation by turning dial. Observes load ammeters, R.P.M. counters and air pressure gauges to regulate pressure, rotary speed and downward pressure on drill bit according to type of rock being drilled. Stops rotation when specified depth has been drilled and withdraws drill rod from hole using electric hoist.

May train greaser, offside or other drill operators in operation of drill. May operate small track mounted, rotary or percussion drill to bore small blast holes in large rocks or boulders. May direct assistant to cover drilled holes, position drill power cables during moves, assist in changing bits and perform related duties. May assist in servicing drill and

making minor repairs. In open cut coal mining, may assist in charging shot holes, if appropriately licensed, and be designated accordingly,

Coal Overburden Driller

May be designated according to level of responsibility, e.g.  
Senior Driller

## Job Content Factors

## Workers

FP: GE9y  
HC: RC

IP: T6m E2y  
RQ: D1 V1 A1

## Materials

SM: D2 P2 T1

EQ: P1 S1 N1 M1 V1

## Functions

MA: A2 P2 D2 R3 M3 L2  
PA: P2 U1 C1 H1 W1 E4

SA: S1 B2 R4

## Context

EC: L1 C02,04,06  
SS: 7

TC: A1 I1  
SC: 7 ( 0y)

LMS: 500-1000 (0 %SE)

ASIC: 11,12,15

## 5321-B

### COAL SEAM DRILLER Coal Seam Borer; Mayhew Driller

Operates small tracked or truck-mounted rotary drilling rig to bore small shot holes in open cut mines for explosives to fragment coal seams.

Performs operational tasks similar to those of 5321-A ROTARY DRILL OPERATOR.

May assist blast crew loading and firing coal shot holes.

**Job Content Factors**

<b>Workers</b>	
FP: GE9-10y	IP: T1m E1-2y
HC: RC	RQ: D1 V1 A1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P1 S1 N1 M1 V1
<b>Functions</b>	
MA: A2 P2 D2 R3 M3 L2	
PA: P2 U1 C1 H1 W1 E4	SA: S1 B2 R4

**Context**

EC: L2 C02,04,06	TC: A1 I1
SS: 7	SC: 7 ( 0y)
LMS: 500-1000 (0 %SE)	ASIC: 11,12,15

**5321-Z DRILL EQUIPMENT OPERATORS, OPEN CUT MINING nec**

This residual group covers drill equipment operators in open cut mines not elsewhere classified in Unit Group 5321.

**5322 BLASTING OCCUPATIONS, OPEN CUT MINING**

This unit group covers occupations concerned with transporting, preparing, placing, priming and detonating explosives to break ore, shale or overburden in open cut mines or quarries.

**Entry Requirements** Year 9-10 and 1-3 years' experience, plus an explosives handling licence.

**Activities include** observing established safety procedures; transporting constituents and/or prepared explosives, primer caps and fuses to blast sites; checking prepared blast holes; priming and placing explosives and fuses; clearing surrounds and detonating explosives; and training offsidors or assistants.

**5322-A SHOT-FIRER (OPEN CUT MINING)  
Blaster; Powder Monkey (Open Cut Mining)**

Assembles, positions and detonates explosives to break or dislodge overburden, ore-bearing rock, or coal from working face of open cut mine.

Inspects blasting area to ensure observance of safety regulations. Follows instructions regarding types and quantities of explosives and detonators required. Checks depth of bore-holes, and cleans hole. Assembles or directs other workers to assemble primer for each hole, using appropriate detonator explosive cartridge, and wire, fuse or detonating cord. Inserts boosters and primer cord into hole, and places or pours additional explosives into hole. Positions hose from portable pneumatic loader or bulk explosives truck, and operates hand control to load hole with granulated blasting agent or liquid slurry explosive such as mixture of ammonium nitrate and diesel fuel. Ties in each hole of blast by tying downline detonating cord to remainder of blast. Attaches delays, where required, by tying into cords. Fills collar of bore-hole with clay, sand or other material, and tamps firm to improve detonation and to confine blast. Connects wires, fuses or detonator cord into series, and tests electrical circuits with galvanometer. Checks blast is at scheduled blasting time. Withdraws to safe distance, lights fuse, or connects wires to electrical blasting machine, and presses handle or button to detonate blast. Ensures all explosives are detonated.

May place plastic explosive and detonators in holes drilled in boulders and fire charge to break boulder independently, or tie in primer cord for blasting with working face. May stem blast holes using front-end loader. May supervise other shotfirers or blast crew workers, and be designated accordingly, e.g.

Senior Shot-Firer; Senior Powder Monkey

**Job Content Factors**

<b>Workers</b>	
FP: GE9-10y	IP: T6-12m E1-3y
HC: RIC	RQ: S1 D1 V1 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S1 N1 V2
<b>Functions</b>	
MA: P1 D2 R3 M3 L2	
PA: P2 U1 C2 H1 W1 E3	SA: A2 S1 B2 R4
<b>Context</b>	
EC: L2 C02,06,13	TC: A1 I2
SS: 8	SC: 8 ( 0y)
LMS: 100-500 (0 %SE)	ASIC: 11,12,15

**5322-Z BLASTING OCCUPATIONS, OPEN CUT MINING nec**

This residual group covers blasting occupations in open cut mines not elsewhere classified in Unit Group 5322.

**5323 EXCAVATING AND HAULING OCCUPATIONS, OPEN CUT MINING**

This unit group covers occupations concerned with operating draglines, bucketwheel-excavators, face-shovels and haul trucks to strip overburden or load broken ore and convey it to rail loadout, primary crushers or stockpiles in an open cut mine or quarry.

**Entry Requirements** Year 9-10 plus 6 months to 4 years' experience, and, in most cases, an operator's ticket or operating licence.

**Activities include** moving stripping and hauling equipment between various on-site locations; stripping overburden and depositing it on spoil piles; loading broken ore; transporting ore from mining faces to crushers, rail loadout or washing (preparation) plants; and maintaining, greasing and oiling parts of machines.

### *Related Occupations*

Major Group 71

: Materials Handling Occupations

#### **5323-A DRAGLINE OPERATOR, OPEN CUT MINING** **Dragline Excavator Driver**

Operates dragline fitted with a bucket to excavate and move overburden and other materials, and deposit overburden on spoilpiles in open cut coal mine.

Receives instructions and stripping schedule as determined by dragline scheduling engineer and dragline foreman/woman. Moves levers and pedals to walk and rotate dragline and position, raise and lower boom. Swings and lowers bucket to material and drags bucket toward dragline to excavate or move material. Places bucket over unloading point and tilts bucket to release material. Maintains responsibility for dragline oiler under guidance of foreman/woman. Completes logsheets on operations.

May train dragline oiler in operation of dragline.

##### *Job Content Factors*

<i>Workers</i>	
FP: GE9-10y	IP: T3-4m E2-4y
HC: RC	RQ: S1 D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: M1 V1
<i>Functions</i>	
MA: P2 D3 R4 M3 L3	
PA: U1 C1 S1 B2 E2	SA: S1 B2 R4
<i>Context</i>	
EC: L1 C03,06,02	TC: A1 I1 R1
SS: 8	SC: 9 ( 1y)
LMS: 100-500 (0 %SE)	ASIC: 11,12,15

#### **5323-B BUCKETWHEEL-EXCAVATOR OPERATOR**

Operates crawler-mounted bucketwheel excavator to excavate and move overburden, coal and other materials in open cut mine and deposit overburden on spoilpiles or conveyors, or load it into haul trucks.

Pushes buttons to activate electric motors, and to start and stop conveyor belts, bucketwheel, and other equipment. Pushes and pulls levers to move excavator into or away from digging position, and to raise, lower and guide bucketwheel across face of cut. Adjusts switches to set speed of wheel and conveyor, and rate of slew of excavator. Observes digging operations to avoid larger rocks that could damage machine, and to ensure uniform excavation. Maintains communication by two-way radio to co-ordinate operations with machine operators working in close proximity. Monitors alarm panel and pressure gauges to detect malfunctions or abnormal operating conditions. Completes log sheets on operations. Maintains responsibility for bucketwheel-excavator crew under guidance of foreman/woman.

May control digging and movement through sensors and closed circuit television with image reproduction on control room monitor.

##### *Job Content Factors*

<i>Workers</i>	
FP: GE9-10y	IP: T3-4m E2-4y
HC: RC	RQ: S1 D1 V1

<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 V1
<i>Functions</i>	
MA: P2 D3 R3 M3 L3	
PA: U1 C1 H1 S1 B2 E2	SA: S1 B2 R4
<i>Context</i>	
EC: L1 C03,02,04	TC: A1 I1 R2
SS: 7	SC: 8 ( 1y)
LMS: 100-500 (0 %SE)	ASIC: 11,12,15

#### **5323-C SHOVEL OPERATOR** **Excavator Operator; Face-Shovel Operator; Shovel Driver**

Operates large electric or diesel face-shovel to load ore or rock into haul trucks for removal.

Propels machine to required position at working face. Operates controls to manoeuvre machine forward or backward or to pivot on tracks, and to raise and lower boom and bucket, force bucket into material, lift material and dump into waiting haul truck. Presses button to operate klaxon to signal haul trucks to alter position as required and to advise haul truck drivers when truck is fully loaded. Maintains contact with pit control using two-way radio, and notifies shift performance and stoppage time. Lubricates shovel, or directs shovel greaser or service worker to perform lubrication duties.

May train shovel greaser in operation of face shovel.

##### *Job Content Factors*

<i>Workers</i>	
FP: GE9y	IP: T3-4m E1-2y
HC: RC	RQ: S1 D1 V2
<i>Materials</i>	
SM: P2 T1	EQ: P2 S1 V1
<i>Functions</i>	
MA: P2 D3 R3 L3	
PA: U1 C1 H1 S1 B2 E3	SA: S1 B2 R4
<i>Context</i>	
EC: L1 C02,03,04	TC: A1 I1 R2
SS: 7	SC: 8 ( 1y)
LMS: 100-500 (0 %SE)	ASIC: 11,12,15

#### **5323-D HAUL TRUCK OPERATOR** **Ore and Mullock Truck Driver; Tonnes Motor Lorry Driver**

Drives gasoline, diesel or diesel electric haul truck with a carrying capacity of up to 200 tons to transport and dump materials such as minerals, coal, overburden and waste material.

Manoeuvres haul truck over haul roads around mine site, under radio instructions from pit control workers or shift foreman/woman. Positions truck alongside or under bucket of power shovel or loader. Drives loaded truck to dump or primary crusher as directed. Actuates dump mechanism to dump load. Operates controls to move truck forward or backward to spread material or to loosen dump material adhering to body. Maintains radio contact with other haul truck drivers and with pit control, advising movements, location and stoppage times and receiving routing instructions. Monitors electronic fault panel and responds to alarms

indicating equipment failure, by stopping haul truck. Hauls waste materials from reject bins in preparation plant when pits are unable to be worked during wet weather.

May operate articulated water truck for dampening haul roads and settling dust. May be designated according to type of vehicle operated, e.g.

- Bellydumper Operator
- Bottom Dump Haulier
- Haulpak Driver

Job Content Factors

Workers	
FP: GE9-10y	IP: T2-6w E6m
HC: R	RQ: S1 D1 V2
Materials	
SM: P2 T1	EQ: N2 V1

Functions	
MA: P2 D3 R3 L3	
PA: U1 C1 H1 S1 B2 E3	SA: S1
Context	
EC: L1 C02,03,04	TC: A1 I1 R2
SS: 7	SC: 8 ( 1y)
LMS: 100-500 (0 %SE)	ASIC: 11,12,15

5323-Z EXCAVATING AND HAULING OCCUPATIONS, OPEN CUT MINING nec

This residual group covers excavating and hauling occupations in open cut mines not elsewhere classified in Unit Group 5323.

5324 ASSISTANTS AND TRAINEES, OPEN CUT MINING

This unit group covers assistants and trainee occupations in open cut mines.

Entry Requirements 6-12 months' experience in some cases.

Activities include assisting rotary driller, shovel operator and dragline operator with operation of plant in open cut mine; and assisting other workers with loading of anfo and explosives trucks, and with preparation of blast holes.

5324-A ROTARY DRILLER'S OFFSIDER

Assists with operation of drag-mounted rotary drill boring blast holes in open cut mine by performing any combination of the following duties.

Gives hand signals to rotary driller to assist with correct positioning of drill over survey peg in grid pattern. Marks initial hole in each row to enable driller to maintain equal spacing. Replaces drill rods, bits, hoses or cables to aid drilling operation. Pulls power cable clear of tracks and ensures cables are not bent. Observes drill bit and signals rotary driller to stop when drill bit is directly over survey peg. Applies grease to lubrication points on drill. Conducts pre-start and post-start checks on operating equipment as indicated on check sheet. Observes gauges to check temperature of oil and water and records readings in log book at periodic intervals. Observes duties of rotary driller and receives instruction in operation of drill. Operates small track mounted, rotary or percussion drill to bore blast holes in large rocks or boulders requiring blasting. May start compressors as directed by driller. May assist in servicing and making minor repairs to drilling machine. May cap drill holes. May assist in loading explosives into bore holes. May assist or receive training in open cut coal mining operations and be designated accordingly,

- Assistant Coal Overburden Driller
- Trainee Coal Overburden Driller

Job Content Factors

Workers	
FP: GE NFR	IP: T1m
HC: R	RQ: V1 A2
Materials	
SM: D2 P2 T1	EQ: S1 N2 M1
Functions	
MA: D3 R4 L3	
PA: U1 C1 H1 W1 B2 E4	SA: S1

Context	
EC: L2 C02,04,09	TC: A1 I1 R2
SS: 6	SC: 6 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 11,12,15

5324-B SHOVEL GREASER Shovel Oiler; Trainee Shovel Driver

Assists shovel operator with operation and routine maintenance and lubrication of face-shovel.

Visually checks operation of automatic lubrication systems on face-shovel. Manually greases parts of shovel and refills grease and oil containers as required. Cleans shovel cab and other parts of equipment when necessary. Maintains lookout for operator during loading operations and warns him/her of persons or vehicles approaching within safe working limits. Guides operator from ground, using prescribed hand signals when shovel is being walked to new location, and moves power cable clear of shovel tracks as required.

May undergo instruction in operation of shovel.

Job Content Factors

Workers	
FP: GE NFR	IP: T2-4w E6m
HC: R	RQ: D1 V1
Materials	
SM: P2 T1	EQ: S1 N1
Functions	
MA: P2 D3 R3 L3	
PA: U1 C1 H1 W1 B2 E3	SA: S1
Context	
EC: L2 C02,04,06	TC: A1 I1 R2
SS: 6	SC: 6 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 11,12,15

5324-C DRAGLINE OILER Trainee Dragline Operator

Assists dragline operator with operational and routine maintenance and lubrication of dragline.

Guides dragline operator and prepares power cables when machine is walking. Greases and oils dragline boom, and ensures bearings, gears and cables are adequately lubricated either by manual or automatic methods. Lubricates and cleans dragline and collects supplies for machine. Reports defects in dragline.

May operate dragline whilst being trained by dragline operator or, if qualified and as directed, dragline clean-up dozer in absence of operator. May assist in changing bucket teeth at set intervals. May peg and mark out areas to be dug as directed by operator.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T6m E6-12m
HC: R	RQ: S1 D1 V1
<i>Materials</i>	
SM: P2 T1	EQ: S1 N1 V1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: P2 U1 C1 H1 S2 W1 B2 E4	SA: S1
<i>Context</i>	
EC: L4 C02,04,06	TC: A1 I1 R2
SS: 6	SC: 6 ( 0y)
LMS: 50-300 (0 %SE)	ASIC: 11,12,15

**5324-D ASSISTANT SHOT-FIRER**

Assists other workers with blasting activities, performing any combination of the following duties.

Drives anfo truck to loading bay, fills truck with ammonium nitrate through hatches in top of truck by opening valve on loading chute, and fills diesel tank. Drives explosive truck to

depot to pick up blasting accessories such as detonating cord, fuse, delays and boosters from explosives store, and places on truck according to State mining regulations. Drives truck to blasting site. Pumps pre-determined amount of ammonium nitrate and fuel oil (anfo) into hole, or ties detonating cord to booster and carefully lowers cord into blast hole. Places blasting signs and cones at intervals to isolate blast area. Maintains accurate record of explosives used.

May specialise in a particular activity concerned with blasting and be designated accordingly, e.g.

Anfo Truck Driver; Slurry and Anfo Mobile Equipment Operator; Explosives Truck Operator

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T1-2m
HC: R	RQ: L1 S1 D1 V1 A2
<i>Materials</i>	
SM: P2 T1	EQ: S1 N1 V1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C1 H1 S2 W1 E4	SA: S1
<i>Context</i>	
EC: L2 C02,04,08	TC: A1 I1 R2
SS: 6	SC: 6 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 11,12,15

**5324-Z ASSISTANTS AND TRAINEES, OPEN CUT MINING nec**

This residual group covers assistants and trainee occupations in open cut mines not elsewhere classified in Unit Group 5320.

## MINOR GROUP 533

### FLUIDS AND GAS DRILLING OCCUPATIONS

Fluids and Gas Drilling and Related Occupations are classified in the following unit groups.

5330	Foremen/women/Supervisors, Fluids Drilling
5331	Drill Equipment Operators, Fluids Drilling
5332	Equipment Operators, Fluids Drilling (Other)
5333	Divers (Fluids Drilling)
5334	Trainee Occupations, Fluids Drilling
5335	Fluids Drilling Support Occupations
5339	Other Fluids and Gas Drilling Occupations

#### *Related Occupations*

Occupation 2045-Z	: Drilling Fluids Engineer
Occupation 2001-A	: Mud Logger
Occupation 2042-Z	: Logging Engineer (Fluids Drilling)

#### 5330 FOREMEN/WOMEN/SUPERVISORS, FLUIDS DRILLING

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in drilling for oil, natural gas and water.

**Entry Requirements** Year 11-12 plus 2-10 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN; directing and co-ordinating the activities of workers engaged in drilling operation, in testing or treating oil and gas wells and in operating equipment to force materials into wells to stimulate production.

#### 5330-A TOOLPUSHER Master Driller (Fluids); Rig Superintendent

Supervises, co-ordinates, and participates in activities of workers engaged in drilling, coring, obtaining information from drilling, and testing wells.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Directs and participates in dismantling, loading, moving, unloading, setting up and alignment of drilling rig and equipment in consultation with company representatives and according to established drilling programs. Inspects component parts of drilling rig, and orders repairs and maintenance. Trains crews for upgrading of qualified personnel. Maintains all records on well, equipment and personnel according to company policy and regulations of government regulating bodies. Attends to industrial relations issues.

May drill offshore wells from drilling barge, ship or platform. May liaise with geologists and engineering personnel regarding drilling techniques.

#### *Job Content Factors*

<i>Workers</i>	
FP: GE11-12y	IP: T2-3m E8-10y
HC: REC	RQ: U2 D1 V1
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S2 N2
<i>Functions</i>	
MA: A1 P1 D2 R2 M3 L2	
PA: P2 U2 C2 H2 S2 W2 B1 E2	SA: S1 B1 R3-4
<i>Context</i>	
EC: T2 M2 L3 C02,04,03	TC: A1 I1
SS: 9	SC: 9 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

#### 5330-B FOREMAN/WOMAN, OIL AND NATURAL GAS WELL SERVICES Production Supervisor, Oil and Natural Gas Wells

Supervises and co-ordinates activities of workers engaged in testing, treating and servicing oil and natural gas wells.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Supervises and co-ordinates activities of workers engaged in testing and treating oil and natural gas wells to start or to increase production, and in servicing wells to clean or re-activate them.

May perform duties of 5330-C ACIDISING AND FORMATION FRACTURING SUPERVISOR.

#### Job Content Factors

<i>Workers</i>	
FP: GE11-12y	IP: T2m E4-8y
HC: REC	RQ: U1 D1 V1
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S2 N2 M2
<i>Functions</i>	
MA: P1 D2 R3 M3 L2	
PA: P2 U2 C2 H2 S2 W1 B1 E2	SA: S1 B1 R3
<i>Context</i>	
EC: T2 M2 L2 C02,03,04	TC: A1 I1
SS: 8	SC: 8 (0y)
LMS: 10-200 (0 %SE)	ASIC: 13,16

### 5330-C ACIDISING AND FORMATION FRACTURING SUPERVISOR

Directs, supervises and participates in operation of blending, pumping and other equipment to force acid or fracturing fluid and solid particles into oil or natural gas well to stimulate production.

Confers with other personnel and examines well logs and core samples, or sends core samples for laboratory analysis to determine acidising or fracturing materials and procedures to be used. Assigns duties to equipment operators, and directs positioning of pumps, blenders, supply trucks and boats, and other equipment at well site. Supervises connection of pipes

from pumps, blenders and trucks, if applicable, to wellhead. Installs pressure sensors on well head and reels out and connects cable from sensors to recorders. Connects communication cables between pumps, blenders and trucks, if applicable, to ensure co-ordination between pumping and blending operations. Directs equipment operators to check equipment, to test valves, and to ensure pipes are clear. Checks wellhead, installation pipes and valves and ensures that acid, fracturing fluid, chemicals and propping agents are blended in required proportions. Orders start of pumping and blending operations, and monitors pressure recorders and other instruments. Directs equipment operators to adjust or maintain pumping pressures for required period of treatment. Orders release of pressure and flushing of excess treatment fluid from well. Prepares operational reports. Services equipment and makes minor repairs.

#### Job Content Factors

<i>Workers</i>	
FP: GE11-12y	IP: T2m E2-4y
HC: RCE	RQ: U1 D1 V1
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S1 N2 M1
<i>Functions</i>	
MA: A1 P1 D2 R2 M3 L2	
PA: P2 U1 C2 H1 W1 B1 E4	SA: S1 B1 R3-4
<i>Context</i>	
EC: T2 M2 L2 C04,08,02	TC: A1 I1
SS: 8	SC: 8 (0y)
LMS: 10-200 (0 %SE)	ASIC: 13,16

### 5330-Z FOREMEN/WOMEN/SUPERVISORS, FLUIDS DRILLING nec

This residual group covers supervisory occupations in fluids drilling not elsewhere classified in Unit Group 5330.

## 5331 DRILL EQUIPMENT OPERATORS, FLUIDS DRILLING

This unit group covers occupations concerned with drilling to explore for or extract oil, natural gas and water.

**Entry Requirements** Year 10-12 plus 2-8 years' experience. However, basic certificate courses are available for water well drillers.

**Activities include** operating drilling equipment; planning and directing use of special drilling tools and procedures; and liaising with geologists and engineering personnel.

### 5331-A DIRECTIONAL DRILL OPERATOR Directional Driller

Plans and directs use of special drilling tools and procedures to correct deviations in oil and natural gas wells, to drill around obstructions in bore-holes, or to direct bore-holes to specified target area.

Confers with other personnel and studies well data to prepare directional drilling program. Computes direction changes required to reach target area or to avoid obstructions. Draws scale plan of projected layout of well. Selects and delivers appropriate survey instruments and directional drilling tools to well site. Assembles well survey instruments, and directs lowering of instruments into well. Develops survey film, and examines film or survey graphs to determine location and orientation of bore-hole. Directs drilling rig crew to lower, orient and operate whipstock (steel wedge) and pilot bit, downhole drill motor and bent sub, or other directional equipment. Directs crew to control pumping pressure and

weight applied to downhole drill motor and bit. Writes operational report of survey results, calculations, and final layout of well.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y	IP: T1y E4-8y
HC: RCE	RQ: U1 D1 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ: P1 S1
<i>Functions</i>	
MA: A1 P1 D2 R2 M1 L2	
PA: P1 U2 C1 H1 S1 W1 B2 E3	SA: S1 B1 R4
<i>Context</i>	
EC: T2 M2 L2 C04,03,02	TC: A1 I1
SS: 8	SC: 8 (0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

5331-B DRILL OPERATOR, FLUIDS DRILLING  
Driller, Fluids Drilling

Under direct supervision of toolpusher, moves, sets up and operates drilling rig and ancillary equipment, and prepares regular records of operations.

Moves drilling rig and accessory equipment from site to site. Sets up rig and equipment, and operates it to achieve the drilling objectives. Constructs wells to suit the required final use. Carries out tests of well as required. Records performance and information obtained from well. Takes samples and packages them. Carries out maintenance and minor repairs. Controls a single shift operation or one shift on a multi-purpose operation.

May drill offshore wells from drilling barge, ship or platform. May perform duties of 5332-G WIRELINE OPERATOR (ELECTRIC LINE).

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE11-12y	IP: T2-4y E2-4y
HC: REC	RQ: U2 D1 V1
<i>Materials</i>	
SM: D1 P2 T2	EQ: P1 S1
<i>Functions</i>	
MA: A1 P1 D2 R3 M3 L3	
PA: P1 U1 C1 H1 W1 B1 E3	SA: S1 B2 R3-4
<i>Context</i>	
EC: T2 M2 L2 C04,03,02	TC: A1 I1 R2
SS: 8	SC: 8 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

5331-C WATER WELL DRILLER

Operates rotary or percussion drilling equipment to drill water well, installs casing, screen and headworks etc, and develops and tests well.

Ensures that drilling rig is in appropriate position and that drilling platform is level, then starts motors which provide the power for drilling operations. When using rotary technique: connects hoses that force water/air into drill hole to provide lubrication and/or carry away drillings; observes gauges and adjusts controls to regulate speed of rotation of bit and

pressure bearing down on bit in order to get a straight shaft; and examines drillings from bore-hole to determine strata being drilled. When using percussion technique: selects drill of appropriate shape and adds or removes weights to vary the impact of the drill; ensures that drill is twisting while descending to drill circular hole; adds water to form slurry with drillings; removes slurry with bailer; and examines slurry to determine strata being drilled. Using power driven machinery, joins sections of casing and installs casing in bore-hole either while drilling is taking place or after. Pumps cement slurry into bore-hole to inhibit corrosion of casing, prevent contamination of aquifers and provide platforms for pumps and screens. Develops well by applying mechanical pressure or introducing chemicals to encourage water flow. Tests water bearing capacity of well, and sends water and drilling samples along with test data to relevant government departments.

May use "fishing tools" to retrieve broken bits, drill pipe etc. from bore-hole. May perform maintenance work and or minor repair work on drilling rig. May specialise in mud rotary, air rotary, or percussion drilling, cementing, sand screening, or hard-rock drilling, and be designated accordingly.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP6-12m(B) or FP: GE10y	IP: T2-3y E1y IP: T6m E2-5y
HC: RC	RQ: L1 S1 U2 D2 V2 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: S2 N1 M1 V1 W2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L3	
PA: U2 C1 H1 S2 W1 B2 E3	SA: A2 S1 B2 R4
<i>Context</i>	
EC: T1 M2 L1 C02,04,09	TC: A2 S2 I2 T2
SS: 8	SC: 8 ( 0y)
LMS: 500-700 (50%SE)	ASIC: 13,16

5331-Z DRILL EQUIPMENT OPERATORS,  
FLUIDS DRILLING nec

This residual group covers drill equipment operators concerned with fluids drilling not elsewhere classified in Unit Group 5331, e.g.  
Seismic Shot Hole Driller

5332 EQUIPMENT OPERATORS, FLUIDS DRILLING (OTHER)

This unit group covers occupations concerned with operating fluids drilling plant and machinery, other than drill equipment.

**Entry Requirements** Year 8-12 and up to 5 years' experience.

**Activities include** operating and maintaining drilling fluid mixing and pumping systems; installing and operating power tongs; operating winches to lower and operate wireline tools and instruments; loading and detonating perforating charges; operating equipment to force drill pipe, tubing or casing into or out of wells against high well pressure; operating well service rigs and cement pumping equipment to seal and plug wells; and operating equipment to test flow potential of oil and gas well and detonating explosives, or operating vibration unit to create seismic waves to locate oil and gas deposits.

5332-A POWER TONG OPERATOR

Installs and operates power tongs to help connect well casing sections during casing of oil or natural gas well.

Drives truck or boat to various well sites. Directs and assists drilling crew to hoist and attach power tongs to drilling rig tong assembly. Connects hydraulic lines to pump on truck, if applicable, and to power tong controls, using wrenches. Starts pump motor and operates controls to maintain required

pressure. Guides power tongs by hand into contact with well casing section. Operates power tong controls to turn casing section and to join it to casing string. Ensures that threaded joints are properly engaged. Observes pressure gauge to ensure that correct torque is applied to each casing joint. Services equipment and makes minor repairs.

#### Job Content Factors

<b>Workers</b>	
FP: GE11y	IP: T6-12m E1-2y
HC: R	RQ: S2 D2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N1 M1 V1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: P2 U1 C1 H1 S2 W1 B2 E3	SA: S1
<b>Context</b>	
EC: T2 M2 L2 C03,04,09	TC: A1 I1 R2
SS: 7	SC: 7 (0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

### 5332-B WIRELINE OPERATOR (ELECTRIC LINE) Electric Logging Operator

Operates winch to lower and operate various wireline tools and instruments on electrical conductor cable to service or assist in completion of oil and natural gas wells.

Drives truck or boat to various well sites. Directs and assists trainee to attach cable pulley to hoisting block of drilling or service rig, or to erect ginpole and pulley over well head. Installs well head pressure control devices. Assembles string of wireline tools or instruments and attaches to wireline. Operates controls to raise, align and lower tools over well head. Monitors depth indicator, casing collar locator or other instruments, and operates controls to lower tool string to specified depth or point of obstruction. Operates controls to activate well logging and survey instruments or tools such as packers, plugs, back-off explosive devices, or perforating guns at required level. Operates controls to lower and raise paraffin cutting tools, swabbers or other devices to remove deposits or obstructions from inside tubing, screens or perforations. Operates controls to position and activate fishing tools to probe for and pull broken or lost tubing, cable or tools from well. Services and repairs equipment and tools.

May handle radioactive sources.

#### Job Content Factors

<b>Workers</b>	
FP: GE11y	IP: T1y E2-3y
HC: RE	RQ: S1 D1 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S1 N2 V1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: P2 U1 C1 H1 S2 W1 B2 E3	SA: S1 B2 R4
<b>Context</b>	
EC: T2 M2 L2 C08,04,09	TC: A1 I1 R2
SS: 7	SC: 7 (0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

### 5332-C FISHING TOOL OPERATOR Downhole Tool Operator

Selects, repairs and directs use of downhole tools used to remove broken or stuck drilling equipment from oil or natural gas wells, or to correct other drilling or servicing problems.

Confers with other personnel and examines work order to determine nature of problem and types of fishing tools, packers or other downhole tools required. Delivers tools to well site, and assembles tools. Directs coupling of tools to drilling or service rig. Directs operation of drilling or service rig and downhole tools during "fishing" and servicing operations. Dismantles, cleans and repairs tools. Prepares operational reports. Maintains safe working practices at all times in accordance with statutory regulations.

#### Job Content Factors

<b>Workers</b>	
FP: GE11-12y	IP: T1y E2-4y
HC: REC	RQ: U2 D1 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S1 N2
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: P2 U2 C1 H1 W1 B1 E3	SA: S1 B2 R4-3
<b>Context</b>	
EC: T2 M2 L2 C04,03,02	TC: A1 I1 R2
SS: 7	SC: 7 (y)
LMS: NA (0 %SE)	ASIC: 13,16

### 5332-D REELED TUBING OPERATOR Coiled Tubing Operator

Operates mobile or skid-mounted reeled-tubing equipment to service oil or natural gas wells.

Directs and assists trainee to position rig and to attach well-head devices, pipes and injector unit to well-head. Manipulates controls to unreel tubing through injector guides into well. Sets depth recorder to zero, and operates controls to force tubing into well to required depth. Operates controls and valves to regulate flow of compressed air or fluids and chemicals through tubing to agitate sediments and deposits, and to clean well. Operates tubing unit with downhole drills or other tools to bore through plugs, to drill shallow wells, to retrieve broken or lost equipment, and to perform related services. Operates tubing unit to deposit acid or cement at specified points in well or to pressure test pipes for leaks. Prepares records of services provided. Services equipment and makes minor repairs.

#### Job Content Factors

<b>Workers</b>	
FP: GE8- 9y	IP: T6m E1y
HC: RE	RQ: U2 D2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S1 N2
<b>Functions</b>	
MA: P2 D3 R4 M3 L3	
PA: P1 U1 C1 H1 W1 B2 E3	SA: S1 B2 R4
<b>Context</b>	
EC: T2 M2 L2 C04,08,09	TC: A1 I1 R2
SS: 7	SC: 7 (0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

### 5332-E SNUBBING UNIT OPERATOR

Operates rig assisted snubbing equipment to force drill pipe, tubing or casing into or out of oil or natural gas wells against high well pressure.

Directs and assists drilling or service rig crew to hoist snubbing equipment into position at well head. Assembles snubbing equipment, attaches to well head, and connects hydraulic lines from pump to snubbers and controls. Threads cables through pulleys on snubbing equipment and travelling block of rig. Signals rig operator to co-ordinate operation of rig drawworks with operation of snubbers. Operates hand controls to alternately open and close travelling and stationary snubbers which clamp pipes being inserted or withdrawn from well. Services equipment and makes minor repairs. Operates self-contained hydraulic snubbing unit to perform standard workover of wells where space is limited, such as on offshore platforms.

#### Job Content Factors

<b>Workers</b>	
FP: GE10-11y	IP: T2m E1-2y
HC: RE	RQ: D1 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S1 N1 M1
<b>Functions</b>	
MA: P2 D2 R3 M3 L3	
PA: U1 C1 H1 W1 B2 E3	SA: S1 B2 R3-4

<i>Context</i>	
EC: T2 M2 L2 C04,09,07	TC: A1 I1 R2
SS: 7	SC: 7 (0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

### 5332-F SERVICE RIG OPERATOR Workover Rig Operator

Operates truck-mounted derrick and drawworks to perform duties related to completion, workover or abandonment of oil or natural gas wells.

Transports rig to well site. Operates controls to raise derrick and to level rig. Directs and assists offsider to thread cable through pulleys in derrick and travelling block and to connect hydraulic lines. Installs pressure control devices on well head. Attaches clamp to top of production tubing or pump rods and operates controls to pull tubing or rods from well for salvage or repair. Disconnects section of tubing or pump rod. Operates controls to hoist and lower sections of tubing or drill pipe into well, and connects sections to tubing string or drill string. Monitors depth and weight indicators, and operates drawworks and power swivel controls to drill through cement, packers, plugs or other obstructions in well. Operates rig controls to clean or scrape casing or tubing, using swabs or paraffin cutters attached to drill string. Operates controls to lower and actuate packers, pressure recording instruments or other devices at required depths. Operates controls to lower special tools into well to recover broken tubing or pump rods. Mixes and pumps cement to seal well holes. Services equipment and makes minor repairs.

May lower and detonate freepoint explosive devices to break casing. May position and operate hydraulic jacking equipment to assist rig in pulling casing from well in preparation for abandonment of well.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y	IP: T6m E2-3y
HC: RE	RQ: S1 U2 D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 N1 M1 V1
<i>Functions</i>	
MA: P2 D2 R3 M3 L3	
PA: U1 C1 H1 S2 W1 B2 E3	SA: S1 B2 R4
<i>Context</i>	
EC: T2 M2 L2 C04,08,09	TC: A1 I1 R2
SS: 7	SC: 7 (0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

### 5332-G CEMENTER, OIL WELL

Operates mobile cement mixing and high pressure pumping equipment to seal casings in oil or natural gas wells, to seal permeable rock formations, and to plug wells.

Couples hoses, pipes and pipe fittings for water, cement and slurry to mixing and pumping equipment. Directs other workers to attach loading head to well head, and to insert plugs into well head. Starts pumps and opens valves to test pipes, casing or tubing for leaks. Observes gauges, pressure recorder and indicators, and operates hand controls to mix cement slurry to required consistency and to pump slurry into well at specified rate. Stops pumps, and directs workers to insert top plug into well casing. Observes pressure gauges, and operates pumps which force water into well to push plug downwards and to squeeze cement to appropriate zone in well. Reports quantity and type of cement used, pressure and duration of pumping, and other cementing data. Services equipment and makes minor repairs.

May also perform duties of 5332-H WELL TREATMENT BLENDER OPERATOR and 5332-I WELL TREATMENT PUMP OPERATOR.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE11-12y	IP: T3m Ely
HC: RE	RQ: U2 D1 V1

<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 N1 M1
<i>Functions</i>	
MA: P2 D2 R3 M3 L3	
PA: U1 C1 H1 S2 W1 B2 E3	SA: S1 B2 R3-4
<i>Context</i>	
EC: T2 M2 L2 C04,08,09	TC: A1 I1 R2
SS: 7	SC: 7 (0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

### 5332-H WELL TREATMENT BLENDER OPERATOR

Operates mixing and pumping equipment to blend and proportion fracturing fluid, granular propping agents, acids, inhibitors and other chemicals during formation fracturing and acidising stimulation treatments of oil and natural gas wells.

Drives blender truck into position, if applicable, and directs and assists other workers to connect hoses and pipes to pumps and other equipment. Operates pump controls and opens valves to pressurise pipes and to test pipes for leaks. Pours or directs helpers to pour bags of dry chemicals into mixer and operates controls to blend dry chemicals and fluids. Monitors pressure gauges and operates blender controls to inject specified proportions of acid, propping agents or other chemicals or fluids into pipe lines at proper times. Reports pressure readings to other workers to help co-ordinate operations. Completes work reports. Services equipment and makes minor repairs.

May also perform duties 5332-G CEMENTER, OIL WELL and 5332-I WELL TREATMENT PUMP OPERATOR.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE11-12y	IP: T3m Ely
HC: RE	RQ: S1 U2 D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S1 N1 M1 V1
<i>Functions</i>	
MA: I1 A2 P2 D2 R3 M3 L3	
PA: U1 C1 H1 W1 B2 E3	SA: S1 B2 R3-4
<i>Context</i>	
EC: T2 M2 L2 C04,08,09	TC: A1 I1 R2
SS: 7	SC: 7 (0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

### 5332-I WELL TREATMENT PUMP OPERATOR

Operates mobile or skid mounted high pressure pumping equipment during acidising and formation fracturing stimulation treatments of oil and natural gas wells.

Connects pipes between pump, blender and chemical, carbon dioxide or nitrogen tanker trucks. Starts pump motor, and opens valves to test pipes for leaks. Operates pump controls and observes gauges to control pumping of acid, formation fracturing fluid, carbon dioxide or nitrogen from blender or tanker truck into well as directed. Prepares operational reports. Services equipment and makes minor repairs.

May also perform duties of 5332-G CEMENTER, OIL WELL and 5332-H WELL TREATMENT BLENDER OPERATOR.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y	IP: T3m Ely
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 N1 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C1 H1 S2 W1 B2 E3	SA: S1

## Context

EC: T2 M2 L2 C04,08,09  
SS: 7

TC: A1 I1 R2  
SC: 7 (0y)

LMS: 10-100 (0 %SE)

ASIC: 13,16

### 5332-J GAS TESTER Oil and Gas Tester; Production Testing Operator

Operates mobile gas testing equipment to obtain samples for laboratory evaluation of flow potential of oil or natural gas wells.

Transports testing equipment and supplies to well site. Positions and connects, or directs other workers to position and connect, pipes between well-head and testing equipment. Opens valves to allow well fluid to flow into testing equipment. Monitors gauges, and operates controls of testing equipment to heat well fluid, to separate fluid into its component phases, and to store test products in tanks. Returns sample tanks and automatically recorded graphs of flow rate, pressure and temperature of well fluid for laboratory and computer analysis. Services equipment and makes minor repairs.

## Job Content Factors

## Workers

FP: GE11-12y  
HC: RE

IP: T3m E2y  
RQ: S1 D1 V1

## Materials

SM: D2 P2 T1

EQ: S1 N1 V1

## Functions

MA: D3 R4 M3 L3

PA: P1 U1 C1 H1 W1 B2 E3

SA: S1 B2 R3-4

## Context

EC: T2 M2 L2 C02,08,12  
SS: 8

TC: A1 I1 R2  
SC: 8 (0y)

LMS: 10-100 (0 %SE)

ASIC: 13,16

### 5332-K PIPE TESTER

Operates truck mounted pumping equipment to test oil well pipes for high pressure leaks or fractures.

Attaches wireline pulley to crown block of rig, and connects hose to testing tool, pump, and water source. Operates hydraulic winch to lower testing tool and high pressure packing devices into pipe to seal water in designated section. Moves lever on hydraulic pump to fill pipe section with water under specified pressure. Observes gauge to detect leaks and changes in pressure. Records findings on log sheet and prepares operational reports. Services equipment and makes minor repairs.

## Job Content Factors

## Workers

FP: GE9y  
HC: RIC

IP: T6m E5y  
RQ: S1 D1 V1

## Materials

SM: D2 T1

EQ: S1 N1 M1 V1

## Functions

MA: D3 R4 M3 L3

PA: U1 C1 H1 W1 B2 E3

SA: S1

## Context

EC: T2 M2 L2 C09,08,02  
SS: 7

TC: A1 I1 R2  
SC: 7 (0y)

LMS: 10-100 (0 %SE)

ASIC: 13,16

### 5332-L SHOOTER, SEISMOGRAPH

Assembles and detonates explosives on land, or assembles explosives in gun when working from boat, to create seismic waves to provide information about sub-surface strata.

When working onshore: drives truck to transport explosives and shooting equipment to work site; directs and assists helper to assemble explosive charge, to connect firing wires to charge, and to lower charge into bore-hole; tests connections and continuity of electrical firing circuit with galvanometer;

co-ordinates activities with other members of prospecting party, using two-way radio; directs workers to guard shooting area, and checks to ensure that safety regulations are met; connects firing wires to switch contacts on firing device in truck; closes switch to detonate charge, or monitors radio equipment which receives detonating signal transmitted from recording truck; directs helper to check that all charges have detonated, and to plug and fill fired holes. When working offshore: monitors gauges and adjusts valves on board marine exploration vessel to fill metal cylinder (gun) with propane and oxygen; operates controls on board vessel to reel out gun and cable, and monitors electronic instruments during detonation of blast. Writes operational reports and takes inventory of supplies. Services and makes minor repairs to electrical and other equipment.

## Job Content Factors

## Workers

FP: GE11-12y  
HC: RE

IP: T1y E1y  
RQ: S1 D1 V1 A1

## Materials

SM: D2 P2 T1

EQ: P2 S1 N1 V1

## Functions

MA: P2 D2 R3 M3 L2

PA: P1 U2 C1 H1 W1 B2 E3

SA: S1 B2 R3-4

## Context

EC: T2 M2 L4 C02,04,13  
SS: 8

TC: A1 I1 R2  
SC: 8 (0y)

LMS: 10-100 (0 %SE)

ASIC: 13,16

### 5332-M VIBRATOR OPERATOR, SEISMIC PROSPECTING

Operates vibrator unit to create seismic waves in geophysical explorations for oil and natural gas.

Drives vehicle equipped with vibrator unit to work site. Manipulates vehicle controls to position vibrator pad on ground and to apply pressure on pad. Starts vibrator motor, and adjusts controls to set sweep length of vibrator and frequency of vibrations, according to radio instructions received from observer in recording vehicle. Monitors dials and pressure gauges to ensure that correct hydraulic pressure is maintained. Services vehicle and vibrator unit, and makes minor repairs.

## Job Content Factors

## Workers

FP: GE9y  
HC: R

IP: T1m  
RQ: S1 D1 V1 A1

## Materials

SM: D2 P2 T1

EQ: S1 N2 V1

## Functions

MA: D3 R4 M3 L3

PA: U1 C1 S1 W2 B2 E3

SA: S1

## Context

EC: T2 M2 L3 C03,04,09  
SS: 7

TC: A1 I1 R2  
SC: 7 (0y)

LMS: 10-100 (0 %SE)

ASIC: 13,16

### 5332-Z EQUIPMENT OPERATORS, FLUIDS DRILLING (OTHER) nec

This residual group covers plant operators, other than drill equipment operators, involved in fluids drilling occupations not elsewhere classified in Unit Group 5332, e.g.

Wireline Operator (Non-Electric Line)

5333 DIVERS (FLUIDS DRILLING)

This unit group covers occupations concerned with performing and assisting in underwater activities related to fluids drilling occupations.

**Entry Requirements** Year 10 in some cases plus up to 8 years' experience, and satisfactory completion of an appropriate course in the case of offshore divers.

**Activities include** performing deep water activities related to offshore drilling exploration, construction and maintenance and repairs; controlling life support equipment of divers in saturation tanks; and performing various underwater activities related to search, salvage and exploratory photography.

5333-A SATURATION TECHNICIAN

Controls life support equipment of divers in saturation tank (decompression chamber).

Monitors gauges and digital displays on control panel to determine the temperature, humidity and levels of oxygen, carbon dioxide and helium in the atmosphere of saturation tank. Turns dials to adjust levels of gases and temperature, and to control atmosphere scrubbing equipment. Calculates partial pressures with aid of calculator and gas tables, and adjusts pressure within saturation chamber to control decompression. Operates radio and decoder to communicate with divers. Records details of shift in log.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP: T6m E5-8y
HC: R	RQ: D2 V1 A1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1 M2
<i>Functions</i>	
MA: D2 R3 M3 L2	
PA: U1 H2 S2 W1 E2	SA: S1
<i>Context</i>	
EC: M1 L3	TC: A1 I1 R2
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: Many

5333-B OFFSHORE DIVER

Performs deep water activities related to offshore drilling, exploration, construction, maintenance and repairs, performing any combination of the following duties.

Works as member of team, alternating diving, assisting and monitoring tasks. Assists other divers to don or remove diving equipment, handles air and life lines, and observes and ensures correct functioning of pressure depth gauges, or dons equipment and remains on standby, ready to render assistance to diver in water, if required, or performs dive. Dons heavy rubberised suit, helmet, boots and gloves, or atmospheric diving suit with connecting air hose. Enters diving bell to reach desired depth or, if using atmospheric suit, enters water directly from surface. Connects cable which provides gas mixture for breathing, hot water to maintain body temperature, pressure indicators and power and communication lines, leaves diving bell, and swims to work location. Inspects equipment, checking for faults such as frayed cables and damaged structures. Surveys area. Removes clamps and bolts and uses arc-oxygen cutting torch to remove damaged structures. Slings structures onto cables to return them to surface. Places new replacement structures into position and secures by welding, clamping and bolting. Uses

hand tools and hydraulic or air powered equipment. Tests that hydraulic rams are secure, rectifies anchor problems, investigates malfunctions or television monitors, uses sandblasters to clean surface of equipment, and performs other inspection, maintenance and construction tanks, as required. Mans diving bell while partner carries out dive. Monitors gauges which indicate pressure and depth, temperature and composition of atmosphere. Maintains communication with surface and with diver, and maintains correct amount of slack on diver's cable. In emergencies, leaves diving bell unattended to assist other diver. When type of work involves lengthy dives without atmospheric suit, lives in pressurised saturation tank for number of days to avoid need for frequent depressurisation. Monitors dials and digital displays which indicate temperature, humidity and level of carbon dioxide in atmosphere of saturation tank. Records details in log, and communicates with surface by radio.

May dive in atmospheric diving bell and control bell's articulated arm to perform underwater tasks, without leaving diving bell. May carry out underwater non-destructive testing. May specialise in performing lengthy dives which required use of saturation tank and be designated,  
Saturation Diver

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR PSP6-12w(B)	IP: T6-12w E1-6m
HC: R	RQ: D1 V1 A1
<i>Materials</i>	
SM: D2 T1	EQ: S1 N1 M2 W2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: U1 C2 S2 W1 B1 E4	SA: S1
<i>Context</i>	
EC: M1 L4 C08,09	TC: A2 S1 I1
SS: 6	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: Many

5333-C ONSHORE DIVER  
Shallow Water Diver

Performs various underwater activities relating to search, salvage, and exploratory photography, performing any combination of the following duties.

Dons diving gear and self-contained breathing apparatus or connects airline which extends to surface. Enters water from boat, dock or shore. Jerks signal line or uses radio telephone to communicate with surface. Surveys area, and searches for objects and structures using arc-oxygen cutting and welding equipment, hand tools and hydraulic or air powered tools. Slings heavy objects onto cables to enable their removal to the surface. Lashes objects to drums which float to surface.

Carries small articles to surface. Operates underwater television camera, sonar and related equipment. Places recording instruments underwater and collects bottom sil samples for scientific or exploratory purposes.

#### Job Content Factors

##### Workers

FP: GE NFR

IP: T6w

HC: R

RQ: D1 V1 A1

#### Materials

SM: P2 T1

EQ: S1 N1

#### Functions

MA: D2 R3 L3

PA: U1 C1 H2 W1 B2 E4

SA: S1

#### Context

EC: M1 L3 C08,09

TC: A2 S1 I1

SS: 3

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: Many

## 5334 TRAINEE OCCUPATIONS, FLUIDS DRILLING

This unit group covers occupations concerned with learning the operation of fluids drilling plant and machinery.

**Entry Requirements** Year 9-10.

**Activities include** helping to set up equipment used to lower wireline tools and instruments into oil or natural gas wells; and assisting with the operation of mobile or skid-mounted reeled-tubing equipment to service oil or natural gas wells.

### 5334-A WIRELINE OPERATOR TRAINEE (ELECTRIC LINE)

Helps to set up and operate equipment used to lower wireline tools and instruments on electrical conductor cable into oil or natural gas wells.

Helps to unload and install pulleys, ginpole and wireline at wellhead. Helps to assemble tools and instruments and to attach them to wireline. Pushes and pulls tools into alignment with wellhead. Signals wireline operator when tools are properly aligned. Guides tools to floor of derrick after completion of operations. Services equipment and makes minor repairs.

#### Job Content Factors

##### Workers

FP: GE9y

IP: T1-3m

HC: R

RQ: D1 V1

##### Materials

SM: P2 T1

EQ: N1

##### Functions

MA: D3 R4 M3 L3

PA: U1 C2 H1 W1 B2 E4

SA: S1

##### Context

EC: T2 M2 L2 C04,08,12

TC: A1 I1 R2

SS: 3

SC: 4 (1y)

LMS: 10-100 (0 %SE)

ASIC: 13,16

### 5334-B REELED TUBING OPERATOR TRAINEE

Assists in operation of mobile or skid-mounted reeled tubing equipment to service oil or natural gas wells.

Drives truck or boat to various well sites. Helps to unload and to attach wellhead devices, pipes and injector unit to wellhead. Guides tubing into injector by hand. Starts compressor motor and operates controls to start compressor. Fills water and chemical tanks on reeled tubing equipment. Completes vehicle log. Services equipment and makes minor repairs.

#### Job Content Factors

##### Workers

FP: GE9y

IP: T1-3m

HC: R

RQ: S1 D1 V1

#### Materials

SM: D2 P2 T1

EQ: S1 N1 V1

#### Functions

MA: D3 R4 M3 L3

PA: U1 C1 H1 W1 B2 E4

SA: S1

#### Context

EC: T2 M2 L2 C02,08,09

TC: A1 I1 R2

SS: 3

SC: 4 (1y)

LMS: 10-100 (0 %SE)

ASIC: 13,16

### 5334-C WATER WELL DRILLER'S ASSISTANT

Assists water well driller to sink bore-hole, construct water well, and develop and test well.

Drives drilling rig to site and assists with erection of derrick and levelling of drilling platform by winching or jacking equipment into position. During drilling, assists driller by adding or removing sections of drill pipe to or from the drill string as required, or assists with changing bits, and adding or removing weights to or from percussion drills. Stores equipment when not in use. Ensures availability of water for cooling and removal of drillings from bore-hole. Using power driven machinery, joins sections of casing and assists with the installation of the casing in the bore-hole. Mixes cement to be used in bore-hole and head works. Performs routine tasks such as obtaining supplies, digging ditches for waste water, driving motor vehicles etc.

May assist in the collection and labelling of strata and water samples, and maintenance of drilling rig.

#### Job Content Factors

##### Workers

FP: GE10y

IP: T3-6m

HC: RC

RQ: L1 S1 U2 D2 V2 A2

##### Materials

SM: D2 T1

EQ: N1 M1 V1 W2

##### Functions

MA: D3 R3 M3 L3

PA: U2 C1 H1 S2 W1 B2 E3

SA: S1

##### Context

EC: T1 M2 L1 C02,04,09

TC: A2 S2 I2 T2

SS: 3

SC: 4 (1y)

LMS: 10-100 (0 %SE)

ASIC: 13,16

5334-Z      **TRAINEE OCCUPATIONS, FLUIDS  
DRILLING nec**

This residual group covers trainee occupations concerned with

fluids drilling not elsewhere classified in Unit Group 5334,  
e.g.  
Assistant Driller (Fluids Drilling)

**5335    FLUIDS DRILLING SUPPORT OCCUPATIONS**

This unit group covers occupations concerned with performing a variety of activities in support of fluids drilling operations.

**Entry Requirements** Year 9-11.

**Activities include** assisting fluids drilling plant and machine operators; assisting with the assembly of equipment; washing and drying well samples; assisting with seismic testing; helping to record gravity measurements which indicate potential source of petroleum deposits; and performing general support duties on and about oil fields and pipelines.

*Related Occupations*

- Occupation 2005-C      : Observer, Gravity Prospecting
- Occupation 2005-C      : Observer, Seismic Prospecting

5335-A      **ROUSTABOUT (FLUIDS DRILLING)  
Leasehand**

Performs general labouring duties in and about oil fields and pipelines.

Digs trenches for building foundations or for drainage around oil wells, storage tanks and other installations. Shovels earth into excavations. Loads and unloads trucks and boats, and transports contents to work area by hand or using hand trucks. Mixes and tamps concrete into building forms. Helps to assemble, dismantle and lubricate boilers, pumps and other production machinery to connect tanks and flow lines, and to erect service rigs over wells. Helps to tighten and unscrew drill pipe, casing, tubing and pump rods, using hand and power wrenches and tongs. Rolls and segregates pipe sections on racks in material yards to position pipes for testing or storage. Paints and makes minor repairs to buildings and other facilities. Helps to build fencing around buildings and equipment, using powered post-hole digger and hand tools. Assists crane operator in all crane operations.

May operate small winches.

*Job Content Factors*

<i>Workers</i>	
FP: GE9y	IP: T1-2y
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: P2 T1	EQ: S1 N1 M1 W1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 H1 W1 B2 E4	SA: S1
<i>Context</i>	
EC: T2 M2 L2 C08,02,13	TC: A1 I1 R1
SS: 5	SC: 5 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

5335-B      **ROUGHNECK  
Offsider, Service-Rig Operator**

Assists other workers in drilling oil and gas wells, performing any combination of the following duties.

Guides drill pipe sections to and from storage racks in derrick while pipe is being hoisted from or lowered into well. Assists in assembling and operating drilling machinery. Operates and

maintains stationary engines to supply power for rotary oil-drilling machinery. Helps to assemble and dismantle high pressure pumping equipment used in formation fracturing and acidising stimulation treatments of oil and natural gas wells. Assists in setting up and controlling mixing and pumping equipment to seal casings in wells, to seal permeable rock formations and to plug wells.

May specialise in a particular duty and be designated accordingly, e.g.

- Derrickman/woman; Derrick Worker
- Floorman/woman
- Motorman/woman (Fluids Drilling)
- Cementer Helper, Oil Well
- Well Treatment Helper

*Job Content Factors*

<i>Workers</i>	
FP: GE9y	IP: T1-24m
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: P2 T1	EQ: S1 N1 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 H1 W1 B2 E4	SA: S1
<i>Context</i>	
EC: T2 M2 L2 C12,08,09	TC: A1 I1 R2
SS: 5	SC: 5 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

5335-C      **SAMPLE WASHER  
Sample Catcher**

Washes, dries and pulverises gas or oil well samples (cuttings and cores) to prepare them for laboratory analysis.

Sprays water through various sized screens over gas or oil well samples to separate foreign matter from samples. Transfers samples to drying oven. Operates small power crusher or uses hammer to grind or pulverise samples. Labels and files samples for laboratory analysis.

May place containers loaded with samples on conveyor belt of automatic washing and drying machine. May assist in rig up of mud logging unit.

**Job Content Factors**

<i>Workers</i>	
FP: GE9y	IP: T1m
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 N1 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C2 H1 W1 B2 E3	SA: S1
<i>Context</i>	
EC: T2 M2 L2 C02,08,09	TC: A1 I1 R1
SS: 5	SC: 5 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

**5335-D SHOOTER HELPER**

Places explosive charges in bore-holes to assist in seismic prospecting for oil and natural gas deposits.

Carries explosives from truck. Assembles explosive charge and attaches detonator and wires. Pays out wires to lower charge, or pushes charge into bore-hole, using coupled loading poles. Pours water into hole, or shovels sand or drill cuttings into hole and tamps with loading pole to confine blast. Unreels electric cable from truck, and connects cable to wires from charges. Informs shooter when connections are completed, and guards shooting area during blast. Checks holes after firing to ensure that all charges have detonated. Fills fired holes with sand, cement or other material, and inserts plugs in holes. Cleans area prior to moving on to next location.

May drive truck as required.

**Job Content Factors**

<i>Workers</i>	
FP: GE10-11y	IP: T1-3m
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: P2 T1	EQ: S1 N1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 H1 W1 E3	SA: S1
<i>Context</i>	
EC: T2 M2 L2 C03,04,13	TC: A1 I1 R2
SS: 5	SC: 5 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

**5335-E OBSERVER HELPER, GRAVITY PROSPECTING**

Helps gravity prospecting observer to record gravity measurements which indicate potential source of petroleum deposits.

Packs delicate instruments in protective casings for transport in vehicle over rough terrain. Drives vehicle which transports prospecting personnel and equipment to work site. Unloads equipment, and carries instruments to designated area. Positions and adjusts gravity meter, torsion balance, and other

gravity measuring instruments as directed. Reads thermometer and barometer, and records readings. Helps to repair gravity measuring instruments. Services vehicle and makes minor repairs.

**Job Content Factors**

<i>Workers</i>	
FP: GE9y	IP: T1-3m
HC: R	RQ: S1 D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S1 V1
<i>Functions</i>	
MA: D3 R4 L3	
PA: P1 U2 C1 H1 S2 W1 E3	SA: S1
<i>Context</i>	
EC: T2 M2 L2 C01,08,02	TC: A1 I1 R2
SS: 5	SC: 5 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

**5335-F OBSERVER HELPER, SEISMIC PROSPECTING**

Positions and connects seismometers, working as member of seismic prospecting crew.

Loads seismometers, portable recorders, and other equipment onto truck, and drives truck to work site. Unloads seismometers, portable recorders and other equipment from truck, and carries equipment to location designated by supervisor. Unreels and connects electrical cables between seismometers and portable recorder or recording equipment in truck. Operates controls in boat during marine seismic exploration to unreel and retrieve detectors or hydrophones as directed by supervisor. Maintains and makes minor repairs to seismometers and other equipment.

May drive truck at work site, along seismic line and from one line to another.

**Job Content Factors**

<i>Workers</i>	
FP: GE9y	IP: T1m
HC: R	RQ: S1 V1
<i>Materials</i>	
SM: P2 T1	EQ: S1 N1 V1
<i>Functions</i>	
MA: D3 R4 L3	
PA: P2 U1 C1 H1 S2 W1 E3	SA: S1
<i>Context</i>	
EC: T2 M2 L2 C10,08,02	TC: A1 I1 R2
SS: 5	SC: 5 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

**5335-Z FLUIDS DRILLING SUPPORT OCCUPATIONS nec**

This residual group covers fluids drilling support occupations not elsewhere classified in Unit Group 5335.

**5339 OTHER FLUIDS AND GAS DRILLING OCCUPATIONS**

This residual unit group covers fluids and gas drilling occupations not elsewhere classified in Minor Group 533.

**Activities include** operating patented torque/turn computer systems; and inspecting oil well pipes to determine location, nature and extent of defects.

5339-A TORQUE/TURN COMPUTER OPERATOR

Operates and controls torque/turn computer system to monitor well casing sections on oil and natural gas well.

Supervises packing and unpacking of computers and related accessories both at beginning and end of job. Rigs up computer to power tongs. Inspects tubulars visually. Operates computer according to established torque/turn practices. Rigs down computer when job completed. Carries out maintenance and repairs on service equipment and monitors performance of computer for possible malfunctions.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y	IP: T2y
HC: RE	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S2 M1 K1
<i>Functions</i>	
MA: P2 D2 R2 M3 L2	
PA: P1 U2 H1 S1 W2 B1 E3	SA: S1 B2 R4
<i>Context</i>	
EC: T2 M2 L4 C08,13	TC: A1 I1 R2
SS: 9	SC: 9 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

5339-B OIL PIPE INSPECTOR  
Pipe Inspector (Oil)

Inspects drill pipe, well casing, and other oil well pipes to determine location, nature and extent of defects.

Connects electrical cables to power source, sensing equipment and control console. Directs other workers to clean pipe and to position pipe or sensing equipment in preparation for

testing. Positions magnetic scanner around pipe, and connects wire to automatic graph recorder. Presses buttons or switches on control console to move self-propelled scanner along length of pipe, or to move pipe through magnetic or gamma-ray testing equipment. Analyses chart recordings of magnetic characteristics or gamma-ray scattering to determine location, nature and extent of defects, and thickness of pipe. Inserts magnetic poles into ends of pipe, and sprinkles magnetic powder on magnetised pipe to reveal defects in pipe. Inspects interior of pipes for surface imperfections, using optical instruments. Measures hardness and thickness of pipes, using portable hardness testers, callipers, or ultrasonic measuring devices. Marks inspected pipes according to established code for recommended usage. Reports results of inspection to engineering personnel or customer.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE12y PSP3-4y(D)	IP: T6-9m
HC: IEC	RQ: Q1 D2 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 N1 M1
<i>Functions</i>	
MA: A1 P2 D1 R2 M2 L2	
PA: U1 C1 H1 W1 B2 E3	SA: S1 B1 R3-4
<i>Context</i>	
EC: T1 M1 L2 C02,08,12	TC: A1 I1
SS: 9	SC: 9 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 13,16

5339-Z FLUIDS AND GAS DRILLING OCCUPATIONS nec

This residual group covers fluids and gas drilling occupations not elsewhere classified in Minor Group 533.

## MINOR GROUP 534

### MINERAL ORE TREATING OCCUPATIONS

Mineral Ore Treating Occupations are classified in the following unit groups.

- 5340 Foremen/women/Supervisors, Mineral Ore Treating Occupations
- 5341 Control Room Operators, Mineral Ore Treating
- 5342 Crushing, Grinding and Screening Occupations (Mineral Ores)
- 5343 Washing, Mixing, Separating and Filtering Occupations (Mineral Ores)
- 5344 Roasting Occupations (Mineral Ores)
- 5345 Testing and Sampling Occupations, Mineral Ore Treating
- 5349 Other Mineral Ore Treating Occupations

#### 5340 FOREMEN/WOMEN/SUPERVISORS, MINERAL ORE TREATING OCCUPATIONS

This unit group covers occupations concerned with supervising, co-ordinating and directing activities of workers engaged in preparing crude mineral ores for direct use or further processing.

**Entry Requirements** Year 9-10 plus 3-5 years' experience.

**Activities include** directing and supervising the activities and training of workers engaged in crushing, screening, stockpiling, reclaiming and shiploading mineral ores; communicating with other supervisors by radio and/or telephone on process matters; stopping process in emergency by using set procedures; liaising with maintenance personnel for scheduled shut-downs; assisting at maintenance shut-downs by cleaning up around equipment prior to shut-down; providing back-up to maintenance personnel during planned maintenance shut-downs; maintaining records for preventive maintenance planning; ensuring that safe marking procedures are used and maintained at all times; handling complaints and other disciplinary type functions in accordance with company policy and procedures; handling industrial relations problems or passing them on to senior management according to set procedures; and supervising and participating in security checks during industrial disputes.

#### 5340-A FOREMAN/WOMAN, CRUSHING AND SCREENING OCCUPATIONS (MINERAL ORES)

Supervises and co-ordinates activities of workers engaged in crushing and screening of ore.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN and as described in the definition for Unit Group 5340 FOREMEN/WOMEN/SUPERVISORS, MINERAL ORE TREATING OCCUPATIONS. Maintains contact with plant operators and attendants in person or by radio. Patrols work area to ensure equipment is operating correctly. Examines faulty equipment and notifies maintenance personnel of location and nature of faults. Maintains responsibility for accepting work performed by maintenance personnel, particularly in relation to crusher mantles and liner replacements. Completes necessary log sheets required to record throughput and downtime.

May ensure that electrical or radioactive equipment is isolated prior to repair or maintenance work being carried out on the equipment, and that work is completed prior to reconnection. May specialise in supervising workers engaged in a particular activity, or may confer with production engineering personnel and co-ordinate activities of other foremen/women, and be designated accordingly, e.g.

Foreman/woman, Crushing Occupations; Crushing Supervisor  
Screening Supervisor  
General Foreman/woman, Crushing and Screening Occupations  
Senior Foreman/woman, Crushing and Screening Occupations

#### Job Content Factors

##### Workers

FP: GE10y  
HC: REC

IP: T2m E3-5y  
RQ: Q2 D1 V1

<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 N2 M2 K2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: U2 C2 H2 W1 B2 E2	SA: S1 L2 B1 R3-4
<i>Context</i>	
EC: L4 C02,04,03	TC: A1 I1
SS: 5	SC: 8 ( 3y)
LMS: NA (0 %SE)	ASIC: 11,14

**5340-B FOREMAN/WOMAN, GRINDING  
OCCUPATIONS (MINERAL ORES)  
Grinding Supervisor; Grinding Mill  
Supervisor/Foreman/woman**

Supervises and co-ordinates activities of workers engaged in grinding ore to predetermined size.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN and as described in the definition for Unit Group 5340 FOREMEN/WOMEN/SUPERVISORS, MINERAL ORE TREATING OCCUPATIONS. Maintains contact with plant operators and attendants in person or by radio. Patrols work area to ensure equipment is operating correctly. Examines faulty equipment and notifies maintenance personnel of location and nature of faults. Calculates number of replacement balls or rods to be added to mills on a daily or shift basis. Maintains responsibility for accepting work done by maintenance personnel, particularly in relation to the re-lining of mills. Supervises training of operators.

May co-ordinate activities of workers, assuming a lower level of responsibility than the foreman/woman, and be designated accordingly, e.g.

Shift Boss, Grinding Occupations (Mineral Ores)

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE9-10y	IP: T2m E3-5y
HC: REC	RQ: Q2 D1 V1
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 N2 M2 K2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: U2 C2 H2 W1 B2 E3	SA: S1 L2 B1 R3-4
<i>Context</i>	
EC: L1 C02,03,04	TC: A1 I1
SS: 5	SC: 8 ( 3y)
LMS: NA (0 %SE)	ASIC: 11

**5340-C FOREMAN/WOMAN, WASHING,  
MIXING, SEPARATING AND  
FILTERING OCCUPATIONS (MINERAL  
ORES)  
Supervisor/Foreman/woman, Concentrator;  
Supervisor/Foreman/woman, Processing  
Plant**

Supervises and co-ordinates activities of workers engaged in washing ore to remove waste material, combining mineral ore with solvents to facilitate further processing, or extracting mineral concentrate from ore by processes such as thickening, flotation, leaching, precipitation, heavy media separation and filtration.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN and as described in the definition for Unit Group 5340 FOREMEN/WOMEN/SUPERVISORS, MINERAL ORE TREATING OCCUPATIONS. Maintains contact with plant operators and attendants in person or by radio. Patrols work area to ensure equipment operating correctly. Examines faulty equipment and notifies maintenance crew of location and nature of faults.

May confer with production engineering personnel and co-ordinate activities of other foremen/women and be designated accordingly, e.g.

General Foreman/woman, Concentrator

Shift Boss, Washing, Mixing, Separating and Filtering Occupations (Mineral Ores)

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP: T2m E3-5y
HC: REC	RQ: Q2 D1 V1
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S2 N2 M2 K2 V2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: U2 C2 H2 S2 W1 B2 E3	SA: S1 L2 B1 R3-4
<i>Context</i>	
EC: L1 C02,08,04	TC: A1 I1
SS: 5	SC: 8 ( 3y)
LMS: NA (0 %SE)	ASIC: 11

**5340-D FOREMAN/WOMAN, ROASTING  
OCCUPATIONS (MINERAL ORES)**

Supervises and co-ordinates activities of workers engaged in operating and attending furnaces to heat mineral ores or concentrates to eliminate impurities or to change their state.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN and as described in the definition for Unit Group 5340 FOREMEN/WOMEN/SUPERVISORS, MINERAL ORE TREATING OCCUPATIONS. Patrols work area to ensure plant operating correctly. Examines faulty equipment and notifies maintenance crew of location and nature of faults. Monitors exhaust or stack emissions and/or precipitator to ensure that any emissions are within the limit of relevant environmental regulations. Monitors control devices to ensure that maximum recovery is maintained. Completes log book requirements to record all relevant information.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE9-10y	IP: T2m E3-5y
HC: REC	RQ: Q2 D1 V1 A1
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 N2 M2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: U2 C2 H2 S2 W1 B2 E3	SA: S1 L2 B1 R3-4
<i>Context</i>	
EC: L1 C01,02,04	TC: A1 I1
SS: 5	SC: 8 ( 3y)
LMS: NA (0 %SE)	ASIC: 11

**5340-E FOREMAN/WOMAN, COAL  
PREPARATION PLANT  
Coal Wash Plant Foreman/woman; Coal  
Washing Plant Foreman/woman**

Supervises and co-ordinates activities of workers in coal preparation (wash) plant engaged in reducing and washing coal to specified, contract standards.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN and as described in the definition for Unit Group 5340 FOREMEN/WOMEN/SUPERVISORS, MINERAL ORE TREATING OCCUPATIONS. Liaises with pit supervisor and stockpile dozer operators to ensure consistent supplies of untreated coal. Ensures optimum operating efficiency of coal preparation plant, crushing station and training loading facilities. Maintains safe and harmonious working conditions.

May train new employees.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE9-10y	IP: T2m E4-5y
HC: REC	RQ: Q2 D1 V1 A2
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 N2 M2 K2

*Functions*

MA: P2 D2 R3 M3 L2

PA: U2 C2 H2 S2 W1 B2 E3

SA: S1 L2 B1 R3-4

*Context*

EC: L1 C02.03,04

TC: A1 I1

SS: 5

SC: 8 ( 3y)

LMS: NA (0 %SE)

ASIC: 11

**5340-Z****FOREMEN/WOMEN/SUPERVISORS,  
MINERAL ORE TREATING  
OCCUPATIONS nec**

This residual group covers supervisory occupations in mineral ore treating plants not elsewhere classified in Unit Group 5340, e.g.

Services Foreman/woman, Mineral Ore Treating

**5341 CONTROL ROOM OPERATORS, MINERAL ORE TREATING**

This unit group covers occupations concerned with operating control panels to operate and monitor ore processing equipment.

**Entry Requirements** Year 10 in some cases, plus up to 2 years' experience.

**Activities include** any combination of the following duties: operating push-buttons, switches, levers and dials on control panel to start conveyor belts and processing equipment in correct sequence, or switching operation to or from local or computer control, studying production schedules; adjusting controls to regulate and co-ordinate process variables such as flow rates, storage capacities and time cycles; advising plant operators to draw specified amounts and proportions of materials onto conveyors; monitoring ammeters, annunciator alarms and lights by observing console of mimic panel, closed circuit television, computer printout and visual display unit to determine load on equipment, temperature of equipment, rate of flow of materials, production rates, quantity of material in storage, and to identify malfunctions; liaising with plant operators, foremen/women and maintenance personnel, by radio, telephone and intercom, to determine the nature of, and to correct, malfunctions; shutting down equipment, altering rates of feed, or re-routing materials until malfunctions have been corrected; and compiling shift operating reports, recording level of productivity and details of breakdowns.

**5341-A****DEPUTY DREDGE MASTER/MISTRESS  
(SAND MINING)****Leading Hand, Floating Plant Operator**

Operates master control panel in alluvial mineral extraction plant and supervises staff of dredge and floating concentrator plant.

Performs duties as described in the definition for Unit Group 5341 CONTROL ROOM OPERATORS, MINERAL ORE TREATING. Observes gauges and instruments to verify specified process conditions. Directs dredge operator as to input requirements. Directs plant operators via intercom or internal telephone system to rectify minor malfunctions. Reports major malfunctions to plant supervisor. Removes charts from recording instruments for analysis by others, and replaces charts.

May observe flow of material and equipment operation on closed circuit television screens. May personally examine faulty equipment to check on irregularities and determine nature of trouble, correcting fault if possible or reporting malfunction for maintenance attention.

*Job Content Factors**Workers*

FP: GE10y

IP: T2m E2m

HC: RES

RQ: Q2 D1 V1

*Materials*

SM: D2 P1 T2

EQ: P2 S2 N2 M2 K2

*Functions*

MA: A2 P2 D2 R3 M3 L2

PA: P2 U2 C2 H2 S1 W2 E1

SA: S1 B2 R4

*Context*

EC: L1 C02.08,06

TC: A1 I2

SS: 8

SC: 9 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

**5341-B****CENTRAL CONTROL ROOM  
OPERATOR, ORE PROCESSING**

Operates control panel in central control room to process mineral ore for industrial use.

Performs duties as described in the definition for Unit Group 5341 CONTROL ROOM OPERATORS, MINERAL ORE TREATING. Notifies plant operators, by radio, telephone, intercom or public address system, of intention to start or stop equipment or instructions to be followed. Starts equipment such as crushers, feeders, conveyor belts, screens, pumps, stackers and ore separation devices. Advises plant operators to draw specified amounts and proportions of different grades of ore from storage areas onto conveyors to loading areas.

May be designated according to level or area of responsibility, e.g.

Senior Control Room Operator  
Concentrator Control Room Operator  
Pellet Plant Control Room Operator

*Job Content Factors**Workers*

FP: GE NFR

IP: T2m E1-2y

HC: RC

RQ: D2 V1 A2

*Materials*

SM: D2 P2 T1

EQ: M1 K1

*Functions*

MA: P2 D2 R3 M3 L2

PA: U2 C2 S1 B2 E2

SA: L1 B2 R4

*Context*

EC: L1 C02.04.03

TC: A1 I1 R2

SS: 7

SC: 8 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

**5341-C****CRUSHER CONTROL ROOM OPERATOR (PRIMARY)****Primary Crusher Operator; Train Unloader (Primary Crushing)**

Operates control panel to control rotary train dumper, jaw crusher and/or gyratory (cone) crusher and ancillary equipment to crush ore for industrial use or further processing, performing any combination of the following duties.

Performs duties as described in the definition for Unit Group 5341 CONTROL ROOM OPERATORS, MINERAL ORE TREATING. Starts rotary train dumper if present, conveyor belts, crusher and, in some cases, vibrating grizzly and vibrating sizing screens, in correct sequence. Controls progress of ore rail cars through rotary dumper by way of integrated automatic car position. Uses light signals to advise haul truck driver to dump ore into crusher. Presses button to control speed of vibrating grizzly. Clears obstructions from crusher using hook and overhead crane, jackhammer and hand tools. Prepares primary crusher for overhaul. Checks and fills lube system and cleans work area using shovel and hose.

May observe flow of material and equipment operation on closed circuit television screen.

*Job Content Factors**Workers*

FP: GE NFR

IP: T1m E6m

HC: RC

RQ: S1 D1 V1

*Materials*

SM: D2 P2 T1

EQ: S1 N2 M1 K1 V1

*Functions*

MA: D2 R3 M3 L3

PA: U1 C1 H1 W1 B2 E4

SA: S1 B2 R4

*Context*

EC: L3 C02.03.04

TC: A1 I1 R2

SS: 7

SC: 8 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

**5341-D****CONTROL ROOM OPERATOR, COAL PREPARATION PLANT****Coal Washing Plant Operator/Attendant; Coal Wash Plant Operator**

Attends electronic control equipment in enclosed control room that sizes, removes impurities and washes coal before transportation from the mine site.

Performs duties as described in the definition for Unit Group 5341 CONTROL ROOM OPERATORS, MINERAL ORE TREATING. Starts equipment such as sizing screens, water washing cyclones, Bradford Breakers, surge bins and conveyor belts. Regulates flow of coal and water to separate coal from waste material. Transfers cleaned, dried and sized coal to storage bins or loading chutes. Maintains contract standard of coal size and cleanliness. Regularly inspects conveyor belts. Compiles shift operating reports, recording specified time gauge readings and details of breakdowns.

May observe flow of material and equipment operation on closed circuit television screens. May assist plant maintenance fitters on regular shut-down days. May hose down spilt coal from around conveyor belts to avoid blockages and maintain safe working conditions, be assisted by maintenance, loading or operational crew working outside the control room and be designated accordingly, e.g.

Coal Preparation Plant End Loader Operator

Coal Preparation Plant Picking Belt Operator

*Job Content Factors**Workers*

FP: GE NFR

IP: T3-12m E0-3m

HC: RC

RQ: U2 D1 V1 A2

*Materials*

SM: D2 P2 T1

EQ: S1 N2 M1 K1

*Functions*

MA: P2 D3 R3 M3 L2

PA: U2 C2 H1 W1 B1 E3

SA: S1

*Context*

EC: L1 C02.03.04

TC: A1 I1 R2

SS: 7

SC: 8 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

**5341-Z****CONTROL ROOM OPERATORS, MINERAL ORE TREATING nec**

This residual group covers control room operators in mineral ore treating plants not elsewhere classified in Unit Group 5341.

**5342 CRUSHING, GRINDING AND SCREENING OCCUPATIONS (MINERAL ORES)**

This unit group covers occupations concerned with operating and tending equipment that sizes minerals and ores by crushing and screening.

**Entry Requirements** Year 9 in some cases, plus 3-24 months' experience.

**Activities include** starting and stopping conveyors and equipment in sequence, or advising control room operator to do so; patrolling plant and conveyor belt areas to check wear on equipment used; removing raw material blockages; maintaining safety standards; advising of blockages or malfunctions; and cleaning plant and environs.

**5342-A****LEADING HAND, PRIMARY CRUSHER**

Attends primary crushing equipment that sizes ore and co-ordinates activities of workers engaged in primary crushing activities.

Patrols work area to ensure plant is operating correctly. Checks condition of conveyor belts. Liaises with foreman/woman of primary crusher operations and equipment operators, and maintains contact using radio. Ensures desired production rates are met. Enforces safety standards. Examines

and resolves work problems or refers these to foreman/woman. Alerts maintenance crew when equipment is faulty. Clears blockages in crusher or advises foreman/woman to request assistance of blast crew. Assists with general cleaning of work area. Relieves control room operator concerned with operation of primary crusher as required.

#### Job Content Factors

<i>Workers</i>	
FP: GE9y	IP: T1-6m E1-2y
HC: IR	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N2 M1
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: U1 C2 H2 W1 B2 E4	SA: S1 B2 R4
<i>Context</i>	
EC: L2 C02,03,04	TC: A1 I1 R2
SS: 7	SC: 8 ( 2y)
LMS: 20-300 (0 %SE)	ASIC: 11

### 5342-B CRUSHER ATTENDANT Cracker Attendant

Attends crushing equipment that sizes material such as ore and rock for industrial use or further processing, performing any combination of the following duties.

Patrols area where equipment such as crushers, grizzly bars, sizing screens or trommels, conveyor belts and chutes are located. Checks for abnormalities such as belt drift, loose belts, stuck idlers, leaking hydraulic lines and blockages. Advises control room operator and plant foreman/woman, by radio, telephone or intercom, of malfunctions. Stops and starts crusher as directed by control room operator. Clears blockages personally or as member of crew using tools such as shovel, pick and hammer. Responds to metal detector alarm by stopping conveyor belt and locating and removing tramp metal. Presses button to reset metal detector. Removes debris from conveyor belts. Reads gauges to check ore flow and levels of oil and water. Clears spillage and cleans work area using shovel, broom and hose.

May push button to start dust scrubbers or water sprays. May operate vibrating screens to separate materials within size ranges. May remove refuse from screens and break oversize lumps using tools such as hammer, shovel and bar. May operate conveyor belt and stop conveyor to remove any debris. May relieve control room operator when required, if sufficiently trained.

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T2w E3m
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1 M1 K2
<i>Functions</i>	
MA: D3 R3 M3 L2	
PA: U1 C2 H1 W1 E4	SA: S1
<i>Context</i>	
EC: L3 C02,03,04	TC: A1 I1 R2
SS: 5	SC: 6 ( 2y)
LMS: 20-300 (0 %SE)	ASIC: 11,14

### 5342-C GRINDING MILL OPERATOR Grinding Mill Attendant

Operates milling equipment, such as stamp machines and ball and/or rod mills, to grind or pulverize ore bearing rocks to a predetermined size, by performing any combination of the following duties.

Checks power supply, drains pumps, starts conveyors, turns valves to control flow of water from pumps and starts grinding mill. Operates console to control feeding chutes

which regulate tonnage. Determines duration of grinding action to regulate size of discharge. Collects sample of mill discharge at specified times using density bottle. Weighs sample to determine specific gravity, and records results. Controls duration of grinding action to regulate size of ground ore particles. Reads gauges to check temperature, air pressure, power usage and automatic lubrication of milling equipment. Checks for leakages and malfunctions, and reports faults to shift boss or foreman/woman. Rotates mill to correct position for addition of balls or rods. Regulates size of grind by regulating time in mill.

May add replacement rods or balls to appropriate machine. May stop equipment in correct sequence when processing of load is completed. May assist in repair, overhaul or routine maintenance of equipment, working as member of crew.

#### Job Content Factors

<i>Workers</i>	
FP: GE9y	IP: T6m E3-6m
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N2 M1 K2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: U1 C1 H1 W1 B2 E3	SA: S1
<i>Context</i>	
EC: L3 C04,02,03	TC: A1 I1 R2
SS: 5	SC: 6 ( 2y)
LMS: 20-300 (0 %SE)	ASIC: 11

### 5342-D SCREEN ATTENDANT Screen House Operator

Attends vibrating screens that size crushed material such as ore and rock, performing any combination of the following duties.

Patrols area where equipment such as vibrating screens, pumps, conveyor belts, chutes and trippers are located. Ensures all valves, plugs and stoppers are in correct position prior to start up of equipment. Turns valves to start pumps for wet screening process. Starts vibrating screens by pressing button or advises control room operator, by radio, intercom or telephone, to start equipment. Adjusts water sprays. Checks conveyor belt area for abnormalities such as belt drift, loose belts, debris and spillage. Stops conveyor belt to remove debris. Removes covers from screens and checks for blockages, tears and holes. Reports malfunctions to control room operator and plant foreman/woman. Clears blockages using shovel, pick and hammer. Cleans work area using shovel, broom and hose.

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T2w E3m
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1 M1
<i>Functions</i>	
MA: D2 R3 M3 L2	
PA: U1 C2 H1 W1 E4	SA: S1
<i>Context</i>	
EC: L3 C03,04,02	TC: A1 I1 R2
SS: 5	SC: 6 ( 2y)
LMS: 20-300 (0 %SE)	ASIC: 11,14

### 5342-Z CRUSHING, GRINDING AND SCREENING OCCUPATIONS (MINERAL ORES) nec

This residual group covers mineral ore crushing, grinding and screening occupations not elsewhere classified in Unit Group 5342.

### 5343 WASHING, MIXING, SEPARATING AND FILTERING OCCUPATIONS (MINERAL ORES)

This unit group covers occupations concerned with processing all forms of mineral ores at the first stage of refinement for further refining or shipment.

**Entry Requirements** Year 9-10 in some cases, plus up to 6 months' experience.

**Activities include** tending and operating washing, separating, leaching, precipitating, filtering, extracting and combining machinery to wash mineral ores to remove waste material; combining mineral ores with solvents to facilitate further processing; or separating mineral concentrate from ore or alluvial deposits by thickening, flotation, leaching, gravity separation, filtration, or magnetic or electrostatic separation.

#### 5343-A WASH PLANT OPERATOR

Attends equipment which removes impurities such as clay from mineral bearing rock, prior to further processing.

Starts machinery such as pumps, conveyor belts, tanks and agitators in correct sequence. Observes flow of ore from crusher to wash plant. Maintains correct viscosity of slurry by increasing or decreasing flow of water from pumps. Pumps compressed air into tanks to prevent solidification of slurry. Observes flow of ore through trommels, settling tanks, agitators and spiral separators. Regularly inspects equipment and reports all faults to foreman/woman.

May clean spills etc. with hose and shovel, and clear blockages in pipes and chutes.

##### Job Content Factors

###### Workers

FP: GE NFR IP: T3m E6m  
HC: R RQ: D1 V1

###### Materials

SM: D2 T1 EQ: S1 N2 M1

###### Functions

MA: D3 R3 M3 L3 SA: S1  
PA: U1 C2 H1 W1 B2 E3

###### Context

EC: L3 C04,09,06 TC: A1 I1 R2  
SS: 5 SC: 6 (2y)

LMS: 20-300 (0 %SE)

ASIC: 11

#### 5343-B THICKENER OPERATOR

Attends thickeners that separate solids from ore solutions preparatory to recovery of minerals or disposal of waste, performing any combination of the following duties.

Turns valves to regulate flow of mixture into thickeners. Controls viscosity of slurry by controlling flow into and out of thickening tanks. Patrols work area to observe operation of equipment, overflow of concentrated ore solution and flow of sludge from tanks. Checks power usage. Checks rakes working to break up sedimentation in tanks. Takes samples of sludge and solution, and performs tests such as titration and weighing to determine acidity, concentration of lime and cyanide, and specific gravity. Records test results and data such as equipment malfunctions and operating times. Adjusts concentration of solution, if required.

May be involved in blending mixtures where series of thickeners are in operation. May attend flotation tanks. May attend filters that separate slurry into liquid and filter cake.

##### Job Content Factors

###### Workers

FP: GE NFR IP: T1m E6m  
HC: R RQ: D1 V1

##### Materials

SM: D2 T1 EQ: S1 N2 M1 K1

##### Functions

MA: D2 R4 M3 L3 SA: S1  
PA: U1 C2 H1 W1 B2 E3

##### Context

EC: L1 C08,02,06 TC: A1 I1 R2  
SS: 5 SC: 6 (2y)

LMS: 20-300 (0 %SE)

ASIC: 11

#### 5343-C FLOTATION OPERATOR

Tends ore treating equipment to separate metal particles from gangue by flotation.

Starts pumps, flotation machines and air supply equipment in correct sequence. Adjusts pulp level in flotation cells by opening and closing valves, or removing or adding slats which control capacity of tank. Pushes buttons to start reagent feeders and adjusts rate of feed by operating valve. Monitors level of froth and viscosity of pulp. Observes gauges indicating performance of cells and rate of flow from pumps. Takes sample from flotation tank using bucket. Filters sample, and forwards filtrate and solid residue to assay department.

May mix reagents and pump solution to holding tank, ready for discharge into flotation cells.

##### Job Content Factors

###### Workers

FP: GE NFR IP: T3m E6m  
HC: R RQ: D1 V1

###### Materials

SM: D2 T1 EQ: P1 S1 N1 M1

###### Functions

MA: D2 R3 M3 L3 SA: S1  
PA: U1 C2 H1 W1 E3

###### Context

EC: L1 C02,08,06 TC: A1 I1 R2  
SS: 5 SC: 6 (2y)

LMS: 20-300 (0 %SE)

ASIC: 11

#### 5343-D

##### SOLUTIONIST

**Cyanide Operator; Leaching Operator; Leach Plant Operator; Solution Operator**

Controls equipment to leach metal from ore in solution, performing any combination of the following duties.

Adjusts controls to feed chemicals such as cyanide and lime into tank of slurry. Observes solution to ascertain dissolution of ore. Operates pumps to regulate flow of slurry to and from pits or tanks. Adjusts valves to control inflow of water or outflow of solution to and from tanks in order to maintain desired viscosity. Collects sample of solution from tanks. Measures specific gravity of sample using hydrometer.

Determines concentration of reagents in solution by titration, and adjusts if necessary. Forwards sample to laboratory for further analysis.

May attend flotation, thickening and filtering equipment. May attend petuka system, operating valves. May shovel solid material into tanks for storage or further processing. May mix solutions in holding tanks.

#### Job Content Factors

##### Workers

FP: GE NFR IP: T3m E6m  
HC: R RQ: D1 V1

##### Materials

SM: D2 T1 EQ: P1 S1 N2 M1

##### Functions

MA: D2 R4 M3 L3  
PA: U1 C2 H1 W1 B2 E2 SA: S1

##### Context

EC: L3 C08.02.06 TC: A1 I1 R2  
SS: 5 SC: 6 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

### 5343-E PRECIPITATOR ATTENDANT

Attends tanks and pumps to precipitate minerals from solution.

Observes indicators and adjusts valves to regulate flow of solution into precipitators and maintain correct level of liquor in tanks. Starts tank agitator. Controls flow of zinc to precipitation tank. Stops agitator to allow precipitate to settle. Pumps slurry from precipitating tanks to filter press. Opens valves to add reagents such as lime, soda and acid. Collects sample of slurry and tests acidity.

#### Job Content Factors

##### Workers

FP: GE NFR IP: T1m E3m  
HC: R RQ: D1 V1

##### Materials

SM: D2 T1 EQ: S1 N1 M1

##### Functions

MA: D2 R4 M3 L3  
PA: U1 H1 W1 B2 E2 SA: S1

##### Context

EC: L1 C02,04.06 TC: A1 I1 R2  
SS: 5 SC: 6 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

### 5343-F FILTER OPERATOR (MINERAL ORE TREATING) Filtration Operator

Attends filtering equipment which separates slurry into mineral bearing solution and waste solids, or mineral concentrate and liquid waste, performing any combination of the following duties.

Turns valves to control flow of settled solution to rotary drum or disc filters. Observes gauges to determine density level, and checks bath level. Adjusts valve to control vacuum pressure in filters. Adjusts water jets to regulate moisture content and cake thickness, and scrapes cake from filter. Pumps filtrate to holding tank, collects samples, weighs, and sends to laboratory for further analysis. Replaces worn filters and filter cloth. Cleans work area using shovel and hose.

May add precipitating agent to filtrate. May attend thickening or flotation tanks. May shovel cake into container for reprocessing or disposal.

#### Job Content Factors

##### Workers

FP: GE NFR IP: T1w E3m  
HC: R RQ: D1 V1

##### Materials

SM: D2 T1 EQ: P1 S1 N1 M1

#### Functions

MA: D3 R4 M3 L3  
PA: U1 H1 W1 B2 E3 SA: S1

#### Context

EC: L1 C02,04.08 TC: A1 I1 R2  
SS: 5 SC: 6 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

### 5343-G MAGNETIC SEPARATOR ATTENDANT

Attends magnetic separators and auxiliary equipment to recover iron concentrate from slurry.

Checks all equipment such as pumps, sprays, screens and magnetic separators, and ensures that all valves, plugs and stoppers are in position, prior to start up of equipment. Advises control room operator, by radio or intercom, that equipment is ready to start. Checks conveyors are operating correctly, starts sprays and directs slurry to correct separation unit by operating appropriate feed pump. Patrols work area, observes operation of equipment and checks level and pitch of noise, to detect malfunctions. Advises concentrator supervisor and control room operator of malfunctions. Cleans plugged water sprays, screens and feed boxes using water hose. Clears spillage and cleans work area.

#### Job Content Factors

##### Workers

FP: GE NFR IP: T2w E3m  
HC: R RQ: D1 V1 A1

##### Materials

SM: D2 P2 T1 EQ: S1 N1 M1

##### Functions

MA: D2 R3 M3 L3  
PA: U1 H1 W1 B1 E3 SA: S1

##### Context

EC: L1 C02,06.04 TC: A1 I1 R2  
SS: 5 SC: 6 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

### 5343-H GRAVITY SEPARATOR ATTENDANT Heavy Media Plant Operator; Heavy Medium Separation Operator

Attends gravity separation device and auxiliary equipment to recover mineral concentrate from slurry.

Checks all equipment such as pumps, sprays, screens, drums and cyclones, and ensures all valves, plugs and stoppers in correct position prior to start up of equipment. Connects air hose to heavy media sump to agitate media, and turns valves to start pumps. Starts equipment locally, and advises control room operator, by radio or intercom, to switch equipment to computer control. Adjusts valves and sprays to ensure that correct flow rate of heavy media is maintained and checks that media reaches screens. Checks level of media in sumps. Adjusts densifiers to maintain correct specific gravity. Adds heavy media, such as ferro silicon, hosing it into underground sumps. Patrols work area, observes operation of equipment, and checks level and pitch of noise, to detect malfunctions. Advises concentrator supervisor and control room operator of malfunctions. Clears spillage and cleans work area using hose, shovel and broom.

May monitor operation of dewatering bunker. May be designated according to equipment operated, e.g.

Cyclone Plant Attendant Drum Plant Attendant

#### Job Content Factors

##### Workers

FP: GE NFR IP: T1w E3m  
HC: R RQ: D1 V1 A1

##### Materials

SM: D2 P2 T1 EQ: S1 N1 M1

##### Functions

MA: D2 R4 M3 L3  
PA: U1 C2 H1 W1 B2 E3 SA: S1

*Context*

EC: L1 C02.06,04  
SS: 5

TC: A1 I1 R2  
SC: 6 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

### 5343-I TABLE OPERATOR (ORE TREATING) Tableman/woman

Attends gravity or strake tables that separate minerals from gangue.

Turns valves to regulate flow of concentrate and water onto tables. Adjusts slope of tables. Operates pumps to wash, for example, free gold, tin or tungsten from strakes or riffles (rows of parallel wooden slats covering tables). If using reciprocating tables, regulates speed to permit settling of minerals in riffles to effect maximum separation and recovery of metals.

May smelt mineral recovered. May separate remaining mineral from residue using mercury amalgamation process. May be designated according to type of table operated, e.g.

Gravity Separator

*Job Content Factors**Workers*

FP: GE NFR  
HC: R  
IP: T1-2m  
RQ: D1 V2

*Materials*

SM: D2 T1  
EQ: M1

*Functions*

MA: D3 R4 M3 L3  
PA: U1 C2 H2 W1 B2 E2  
SA: S1

*Context*

EC: L1 C08,02,06  
SS: 5  
TC: A1 I1 R2  
SC: 6 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

### 5343-J ALLUVIAL SEPARATION PLANT OPERATOR General Hand (Alluvial Separation); Plant Operator, Alluvial Separation; Pumpman/ woman; Wet Plant Operator

Tends equipment such as trommels, sluices, trays, cones, spirals, shaker separation tables and magnetic separators, to extract minerals or ores from alluvial deposits.

Checks all equipment such as pumps, sprays, screens, tanks, trommels, cones, cyclones, trays, sluices, spirals, magnetic separators and shaker separation tables, and ensures all valves, plugs, stoppers and splitters are in correct position prior to start up of equipment. Advises flotation plant operator, by radio or intercom, that equipment is ready to start or starts equipment manually by pushing buttons or turning switches. Patrols area to detect equipment malfunctions and operating irregularities. Observes flows of water and slurry to separating equipment and adjusts flows, splitters, jigs, valves and speed and angle of reciprocating tables to effect maximum separation and recovery of minerals. Clears blockages using air or water hose and removes foreign objects from equipment. Cleans work area.

May take samples to send to laboratory for analysis. May operate a particular type of equipment and be designated accordingly, e.g.

Cleaner Mill Operator  
Rougher Mill Operator  
Jiggerman/woman (Mineral  
Ore Treating)  
Table Attendant

*Job Content Factors**Workers*

FP: GE9-10y  
HC: RC  
IP: T1m E3m  
RQ: D1 V1

*Materials*

SM: D2 P2 T1  
EQ: S1 N1 M1

*Functions*

MA: D2 R3 M3 L3  
PA: U1 C2 H1 W1 B1 E2  
SA: S1

*Context*

EC: L1 C08,06,09  
SS: 5  
TC: A1 I1 R2  
SC: 6 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

### 5343-K DRY MILL SEPARATION OPERATOR Dryer Operator (Mineral Ore Treating); Dry Mill Process Worker

Tends equipment such as dryers, electrostatic and magnetic separators, shakers and gravity air tables to remove moisture and separate specific products from mineral sands concentrate.

Starts and shuts down equipment in predetermined sequence by pressing buttons and adjusting hand controls. Monitors and adjusts temperature in dryer and flow of material through dryer; voltage supplied to electrostatic and magnetic separators; and slope and speed of shakers and air tables to ensure correct separation of minerals, within predetermined limits. Takes samples of final product and performs count with microscope to ensure quality. Cleans area.

May assist in tabling section and perform duties similar to 5343-I TABLE OPERATOR (ORE TREATING).

*Job Content Factors**Workers*

FP: GE10y  
HC: RC  
IP: T2-4m  
RQ: D1 V1

*Materials*

SM: D2 P2 T1  
EQ: S1 N1 M1 K1

*Functions*

MA: A2 D2 R4 M3 L3  
PA: U1 C2 H1 W1 B2 E2  
SA: S1

*Context*

EC: L1 C02,06,10  
SS: 6  
TC: A1 I1 R2  
SC: 7 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

### 5343-Z WASHING, MIXING, SEPARATING AND FILTERING OCCUPATIONS (MINERAL ORES) nec

This residual group covers mineral ore washing, mixing, separating and filtering occupations not elsewhere classified in Unit Group 5343, e.g.

Solvent Extraction Operator

## 5344 ROASTING OCCUPATIONS (MINERAL ORES)

This unit group covers occupations concerned with operating and attending furnaces that heat mineral ores, slurries, liquors or concentrates to change their state, or to eliminate impurities.

**Entry Requirements** Year 9 in some cases, plus 3-12 months' experience.

**Activities include** monitoring gauges for temperatures, pressures, air and water levels; lubricating bearings of gear boxes; opening and closing valves; responding to alarms; and altering rate of inflow of ore, slurry, liquor, air, water, oil or coal.

**5344-A ROASTER OPERATOR**  
**Calcination Plant Operator; Calcination**  
**Process Control Attendant**

Operates roaster to remove sulphur or other impurities from ore to form porous calcine and facilitate recovery of ore.

Patrols roaster plant, monitoring performance of equipment. Monitors gauges at regular, predetermined intervals and records readings. Controls temperature by opening and closing valves which alter rate of flow of ore, air and water.

May assist in operating a sinter plant to produce sinter from iron ore fines for use in a blast furnace and be designated, Sinter Plant Operator

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T1m E6-12m
HC: RC	RQ: D1 V1 A1
<b>Materials</b>	
SM: D2 T1	EQ: S1 N1 M1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: U1 C2 H1 W1 B2 E3	SA: S1
<b>Context</b>	
EC: L1 C01,02,04	TC: A1 I1 R1
SS: 5	SC: 6 ( 2y)
LMS: 20-300 (0 %SE)	ASIC: 11

**5344-B FURNACE OPERATOR (PELLET PLANT)**  
**Pellet Roaster Attendant**

Attends pellet furnace and associated equipment to harden green iron pellets for industrial use, performing any combination of the following duties.

Advises control room operator when ready to start equipment. Presses buttons to start burners and controls initial flow of air and oil. Patrols work area. Advises control room operator of malfunctions, observes roasting process through viewing panel in furnace and monitors gauges. Checks operation of burners and fans, and level of water and oil. Monitors temperature of furnace. Removes and replaces faulty burners using ratchett. Cleans work area using shovel and hose.

May check depth of layer of pellets. May unblock chutes and rollers using pick and sledge-hammer. In event of power failure, may remove all burners from furnace.

**Job Content Factors**

<b>Workers</b>	
FP: GE9y	IP: T2w E3-6m
HC: RC	RQ: D1 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N2 M1 K1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: U1 C2 H1 W1 B1 E4	SA: S1
<b>Context</b>	
EC: L1 C01,02,04	TC: A1 I1 R1
SS: 5	SC: 6 ( 2y)
LMS: 20-300 (0 %SE)	ASIC: 11

**5344-C BOTTOM FLOOR OPERATOR (PELLET PLANT)**

Attends ancillary furnace equipment and monitors furnace discharge in pellet plant.

Monitors furnace discharge and ensures even flow of discharge. Removes build up of iron concentrate using tools such as hammer and pick. Patrols work area and monitors operation of air compression, fan and water cooling systems. Checks addition of chemical additives. Collects water samples from cooling system and conveys samples to laboratory. Monitors flow valves, pressure gauges and oil guages. Determines condition of equipment. Cleans work area.

May use vibration monitor to determine level of vibration of equipment. May remove and replace worn out grate bars. May remove and clean furnace burners.

**Job Content Factors**

<b>Workers</b>	
FP: GE9y	IP: T2w E3m
HC: RC	RQ: D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: S1 N1 M1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: U1 C2 H1 W1 B2 E4	SA: S1
<b>Context</b>	
EC: L1 C01,02,03	TC: A1 I1 R1
SS: 5	SC: 6 ( 2y)
LMS: 20-300 (0 %SE)	ASIC: 11

**5344-Z ROASTING OCCUPATIONS (MINERAL ORES) nec**

This residual group covers mineral ore roasting occupations not elsewhere classified in Unit Group 5344.

**5345 TESTING AND SAMPLING OCCUPATIONS, MINERAL ORE TREATING**

This unit group covers occupations concerned with sampling and testing minerals resulting from ore treatment processes.

**Entry Requirements** Year 9 plus 2-4 years' experience.

**Activities include** sampling, weighing and testing in simple abrasion and pressure machines; and recording test results.

*Related Occupation*

Occupation 2000-D : Assayer

**5345-A IRON PELLET TESTER**

Attends tumbling drums, screens and balance scales to test baked iron concentrate pellets.

Collects sample of baked iron pellets from furnace, using hand-held sample cutter. Conveys sample to laboratory. Weighs pellets on balance scales and pours into rotating drum. Screens pellets to remove fines. Re-weighs pellets and determines abrasion index. Places pellets into calibrated pressure apparatus and applies increasing pressure to determine compression strength of pellets. Carries out simple tests on pellet sizes. Records test results.

*Job Content Factors*

*Workers*

FP: GE9y  
HC: RCI

IP: T3-6m E2-4y  
RQ: D1 V1

*Materials*

SM: D2 T1

EQ: P1 S1 N1 M1

*Functions*

MA: A1 P2 D2 R3 M3 L3

PA: U1 C1 H1 W1 E3

SA: S1

*Context*

EC: L1 C13,04,06

SS: 6

TC: A1 I1 R1

SC: 7 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

**5345-Z**

**TESTING AND SAMPLING  
OCCUPATIONS, MINERAL ORE  
TREATING nec**

This residual group covers testing and sampling occupations in mineral ore treating not elsewhere classified in Unit Group 5345, e.g.

X-Ray Fluorescence Operator

**5349 OTHER MINERAL ORE TREATING OCCUPATIONS**

This residual unit group covers occupations not elsewhere classified concerned with mineral processing activities.

**Activities include** operating rotating discs or drums to form pellets of iron concentrate; monitoring stacking of iron ore pellets; separating minerals from gangue using mercury amalgamation process; pumping waste discharge from processing plant to fill underground areas; and preparing reagent solutions to be used in mineral ore processing.

**5349-A PELLET DRUM/DISC OPERATOR  
Balling Drum/Disc Operator**

Attends battery of revolving drums or rotating discs and associated equipment to form green pellets of iron concentrate, performing any combination of the following duties.

Advises control room operator when ready to start equipment. Controls flow of slurry over drum by adjusting angle of drum or disc. Checks consistency of green pellets by dropping sample over predetermined distance. Adjusts water sprays to control size and consistency of pellets. Operates reciprocating cutter to remove buildup of concentrate. Monitors operation of vibrating screen. Cleans water sprays. Cleans work area.

May specialise according to type of equipment operated and be designated accordingly, e.g.

Pellet Disc Operator

Pellet Drum Operator

*Job Content Factors*

*Workers*

FP: GE8- 9y  
HC: R

IP: T1w E1m  
RQ: D1 V2

*Materials*

SM: D2 P2 T1

EQ: S1 N1 M1

*Functions*

MA: D3 R4 L3

PA: U1 H1 W1 B2 E3

SA: S1

*Context*

EC: L1 C03,04,02

SS: 5

TC: A1 I1 R2

SC: 6 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

**5349-B**

**AMALGAMATOR OPERATOR**

Tends equipment that separates finely ground gold particles from gangue using mercury amalgamation process.

Turns valves or opens gates to charge ore concentrate and mercury into rotating type barrels; or manually places mercury into tray over which slurry washes, and controls rate of flow of slurry by adjusting water flow. Starts equipment and observes accumulation of amalgam. Operates pump which removes slag, and discharges or drains barrel to recover amalgam; or scrapes amalgam from copper collecting plate. Weighs amalgam and records result. Places amalgam in retort and closes and bolts retort. Places retort in furnace to evaporate mercury. Recovers recondensed mercury.

May smelt gold and pour into bars.

*Job Content Factors*

*Workers*

FP: GE8- 9y  
HC: R

IP: T1m E1y  
RQ: D1 V1

*Materials*

SM: D2 T1

EQ: S1 N2 M1

*Functions*

MA: D2 R3 M3 L3

PA: U1 C2 H1 W1 E3

SA: S1

*Context*

EC: L1 C02,06,01

TC: A1 I1 R2

SS: 5

SC: 6 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

**5349-C REAGENT ATTENDANT  
Reagent Mixer**

Mixes chemical reagents to be used in the ore treating process.

Mixes measured quantities of reagents. Adds specified amount of dry or concentrated liquid reagent to water to obtain solution of desired concentration. Tops up solution in holding tanks.

*Job Content Factors**Workers*

FP: GE8- 9y

IP: T1m

HC: R

RQ: D1 V2

*Materials*

SM: D2 T1

EQ: S1 N1

*Functions*

MA: D3 R4 M3 L3

PA: U1 C2 H1 W1 E3

SA: S1

*Context*

EC: L1 C02,08,06

TC: A1 I1 R1

SS: 5

SC: 6 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

**5349-D SURFACE HYDRAULIC FILL  
OPERATOR**

Pumps waste discharge from processing plant to fill underground areas.

Checks and opens valves. Requests shift boss of process plant to feed fill from plant. Turns on water and starts pumps. Checks density of sludge and adjusts water flow as required. Advises shift boss of intention to shut down hydraulic fill plant. Turns off valves and pumps in correct sequence. Flushes line to mill and turns off mill return pump. Checks and replaces worn parts when required. Records operating data, maintenance and stoppages. Unblocks clogged pipes by flushing with water. Repairs minor malfunctions or notifies maintenance crew.

*Job Content Factors**Workers*

FP: GE8- 9y

IP: T1m

HC: R

RQ: D1

*Materials*

SM: D2 P2 T1

EQ: S2 N2 M2

*Functions*

MA: P2 D2 R3 M3 L3

PA: U1 C2 H1 W1 B2 E3

SA: S1

*Context*

EC: L1 C02,04,06

TC: A1 I1 R2

SS: 5

SC: 6 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

**5349-E SCREEN AND LOAD-OUT ATTENDANT  
(PELLET PLANT)**

Monitors stacking of pellets of iron concentrate and operates equipment to cool pellets and suppress dust.

Adjusts water sprays to cool pellets and suppress dust. Patrols work area. Ensures automatic stacker operating correctly. Clears spillage and cleans work area.

*Job Content Factors**Workers*

FP: GE8- 9y

IP: T1w

HC: R

RQ: D1 V2

*Materials*

SM: D2 T1

EQ: S1 N1

*Functions*

MA: D3 R4 L3

PA: U1 C2 H1 W1 B2 E3

SA: A1 S2

*Context*

EC: L2 C02,04,06

TC: A1 I1 R1

SS: 5

SC: 6 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

**5349-F CLARIFIER OPERATOR  
Clarification Process Operator**

Cleans ore treating equipment such as tanks, screens and inflow pipes.

Operates valves to drain tanks. Cleans tanks using hose, or dismantles tank prior to cleaning. Removes screens, unfastens inflow and dismantles filtering units. Cleans items with water and reassembles. Cleans work area.

May mix reagents and add to storage tanks. May adjust controls to feed reagents into tanks of slurry. May attend agitator.

*Job Content Factors**Workers*

FP: GE8- 9y

IP: T1m E3-6m

HC: R

RQ: D1

*Materials*

SM: T1

EQ: S2 N1

*Functions*

MA: D3 R4 L3

PA: U1 H1 W1 E4

SA: A2 S1

*Context*

EC: L1 C08,02,06

TC: A1 I1 R2

SS: 5

SC: 6 ( 2y)

LMS: 20-300 (0 %SE)

ASIC: 11

**5349-Z MINERAL ORE TREATING  
OCCUPATIONS nec**

This residual group covers mineral ore treating occupations not elsewhere classified in Minor Group 534, e.g.

Coal Briquette Maker

## MINOR GROUP 539 OTHER MINING AND RELATED OCCUPATIONS

Other Mining and Related Occupations are classified in the following unit groups.

- 5390 Mine Cage Operating Occupations
- 5391 Mineral Exploration Drilling Occupations
- 5392 Mineral Exploration Drilling Trainee Occupations
- 5393 Mine Sampling Occupations
- 5399 Other Mining and Related Occupations

It should be noted that duties allocated to occupations in this group are affected by such factors as company policy and the size of the mining venture. For example, the classification may not appear detailed enough to cover the occupations that occur in a large mining operation whereas it may be the case that a single worker performs duties relating to a wide range of occupations in a smaller mine. Hence a worker may perform duties relating to more than one occupation or the more specialised duties of a single occupation as described here.

### 5390 MINE CAGE OPERATING OCCUPATIONS

This unit group covers occupations concerned with raising and lowering ore, waste rock, workers, materials and equipment between the surface and various levels in an underground mine.

**Entry Requirements** Year 9-10 plus 3 months to 2 years' experience. Winding Engine Drivers also require an appropriate operator's ticket.

**Activities include** operating electric winder drums to raise and lower mine cages or skips to indicated levels of mine according to bell and/or phone signals; ensuring adherence to safety regulations; and controlling loading and offloading of workers, equipment and/or ore.

#### 5390-A WINDING ENGINE DRIVER Winch Operator (Mine Cage); Winder Driver (Mine Cage)

Operates electric winder to raise and lower mine cage or skip in inclined or vertical underground mine shafts in response to bell or phone signals, as determined by regulations.

Operates winder drums to raise or lower cage or skip according to bell signal received from platman/woman or skipman/woman. Regulates speed of ascent and descent, and applies brake to halt cage or skip at required level, as indicated by depth gauge. Monitors speed of ascent and descent, and position of cage or skip, by observing meters and calibrations on winder drums and depth gauge. Adjusts calibrations on winder drum to compensate for rope stretch. Operates clutch to engage or disengage winder drums and to apply safety brakes to disengaged drums. Responds to warning bells or phone call, indicating malfunction of equipment or excessive speed of mine cage, by halting or reducing speed of winder drums. Presses button to automatically shut-off power and apply safety brakes to winder drums in emergencies. Operates winder to specified criteria and conditions applied by the mines inspector.

#### Job Content Factors

##### Workers

FP: GE9y  
HC: R

IP: T9w E2y  
RQ: S1 D1 V1 A2

#### Materials

SM: D2 P2 T1 EQ: V1

#### Functions

MA: D2 R3 M3 L2  
PA: U1 C1 S1 W2 B2 E3 SA: L1

#### Context

EC: L1 C02,03,04 TC: A1 I1 R2  
SS: 6 SC: 6 (0y)

LMS: 10-100 (0 %SE)

ASIC: 11,12,13

#### 5390-B PLATMAN/WOMAN Cage Attendant; Pit Bottomer; Pithead Man/woman

Takes charge of cage in mine shaft and directs transfers of workers and materials from surface to various levels, or between levels in an underground mine.

Checks to ensure cage is operating safely, and that signalling equipment is operating between surface and various levels of mine, by lowering cage to bottom of shaft, and raising back to surface before commencement of each shift, or after a break in operations. Directs loading of cage with special materials, such as explosives, to enforce safety standards. When transporting workers, directs personnel in loading and offloading of cage to ensure conformity with safety restrictions. Checks that number of personnel carried does not exceed permitted maximum. Assists bracman/woman in

attaching and removing long pieces of equipment underneath cage. Operates phone, control lights, bell or buzzer switch to signal winder driver to have cage raised, lowered or stopped.

May perform duties of 5390-C SKIPMAN/WOMAN.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9-10y	IP: T2m E1y
HC: RE	RQ: S1 D1 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 V1
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: U2 C1 H1 W1 B2 E3	SA: L1 B2 R3-4
<i>Context</i>	
EC: L1 C02,09,04	TC: A1 I1 R2
SS: 6	SC: 6 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 11,12,13

5390-C SKIPMAN/WOMAN

Takes charge of skip raising ore bearing rock from various levels in mine to surface.

Checks to ensure skip is operating safely and that signalling equipment is operating between surface and various levels of mine by lowering and raising empty skip prior to ore hauling operations. Pulls levers to start and stop flow of ore bearing rock from ore chute into skip loading bin at underground level in mine. Operates bell or buzzer switch to signal winding engine driver to lower empty skip to required level. Pulls lever to open gate in skip loading bin to permit ore bearing rock to fall into skip. Signals winder driver to raise full skip to surface. Records number of skips loaded during shift and estimates weight of ore bearing rock hauled to surface, if required. Reports unsafe conditions such as deterioration of shaft timbers or skids.

May perform duties of 5390-B PLATMAN/WOMAN (MINE CAGE).

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9y	IP: T2m E3-4m
HC: R	RQ: S1 D1 V1 A2

<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 V1
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: U1 C1 H1 W1 B2 E3	SA: L1
<i>Context</i>	
EC: L1 C02,09,04	TC: A1 I1 R2
SS: 5	SC: 5 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 11,12,13

5390-D BRACEMAN/WOMAN (MINE CAGE)

Assists platman/woman by servicing mine cage at surface.

Assists with regular check for safe operation of mine cage. Assists loading of cage, and in attaching and removing long pieces of equipment underneath cage. Operates compressed air hoist to move heavy equipment to and from cage. Ensures that equipment and materials are secured in cage, if required. Operates bell or buzzer switch to signal winder driver to raise or lower cage to and from required level, and maintains contact with platman/woman in cage.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9y	IP: T2m E3-4m
HC: R	RQ: D1 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 V1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 H1 W1 E4	SA: S1
<i>Context</i>	
EC: L1 C03,04	TC: A1 I1 R2
SS: 6	SC: 6 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 11,12,13

5390-Z MINE CAGE OPERATING OCCUPATIONS nec

This residual group covers mine cage operating occupations not elsewhere classified in Unit Group 5390.

5391 MINERAL EXPLORATION DRILLING OCCUPATIONS

This unit group covers occupations concerned with operating drilling equipment used in mineral exploration.

**Entry Requirements** Year 9 plus, preferably, a certificate in diamond drilling and one year's experience; or 2-5 years' experience.

**Activities include** driving drilling rigs to predetermined specific locations; setting up diamond drilling rigs; operating, monitoring and adjusting performance of drill motors according to strata resistance encountered; and removing, coding, boxing and dispatching core samples for geological analyses.

5391-A DIAMOND DRILLER (MINERAL EXPLORATION)

Core Drill Operator; Diamond Drill Runner

Operates drilling equipment to obtain core samples of strata for analysis of geological character of ground, nature of ore, or strength of foundation material.

Drives mobile equipment to site and assembles rig on drilling site. Positions drilling equipment directly over predetermined site by sighting along drill head or receiving instructions from assistant taking sights and aligning rig with survey peg. Secures and stabilises rig by jacking up and placing blocks beneath, or by operating hydraulic rams using spanners, jacks and levers. Raises rig mast, if fitted, to required angle by operating hydraulic controls. Secures locking pins if required. Fastens drill rod into machine, inserts core tube into end of

drill and attaches water swivel to top end of drill rod. Switches on water pump to cool drill bit and lift slurry to surface. Switches on power unit and operates levers to engage heads and winches. Operates hand clutch to engage rods to start rotation. Directs assistant to attach additional lengths of drill rod as bit advances. Monitors head pressure and water pressure gauges to check weight applied to drill bit and to determine if bit jams. Withdraws drill rod from hole after specified depth has been reached, removes core tube or operates wireline release mechanism, and draws core tube up through drill rod using hydraulic winch. Extracts core sample from core by shaking tube, and places sample in core box. Records depths from which core samples were taken and codes core sample boxes.

May insert camera into end of drill rod after presetting timing device to ensure that photograph of mineral deposit is taken at correct time and depth. May remove photographic plate from camera, insert into developing unit and place with core sample after developing. May conduct other surveys to determine factors such as inclination of hole etc.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9y PSP	IP: T6m E2-5y
or FP: GE9y PSP6-12m(B)	IP: E1y
HC: REC	RQ: D1 V2 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S1 N1 M1 V1
<i>Functions</i>	
MA: P1 D2 R3 M3 L2	
PA: P2 U1 C1 H1 W1 E5	SA: S1 B2 R4
<i>Context</i>	
EC: M1 L2 C02,03,04	TC: A1 I1 R2
SS: 8	SC: 8 ( 0y)
LMS: 800-1100 (20%SE)	ASIC: 16

5391-Z

MINERAL EXPLORATION DRILLING  
OCCUPATIONS nec

This residual group covers mineral exploration drilling occupations not elsewhere classified in Unit Group 5391.

5392

MINERAL EXPLORATION DRILLING TRAINEE OCCUPATIONS

This unit group covers occupations concerned with learning the operation of drilling equipment used in mineral exploration.

**Entry Requirements** Year 9.

**Activities include** assisting a diamond driller to obtain core samples of strata for analysis of geological character of ground, nature of ore, or strength of foundation material.

5392-A

DIAMOND DRILLER'S ASSISTANT  
(MINERAL EXPLORATION)  
Core Drill Operator's Assistant; Diamond  
Driller's Helper; Drill Helper, Diamond  
Drilling

Helps to obtain core samples of strata for geological analysis of ground, nature of ore, or strength of foundation material.

Assists diamond driller to position drilling rig accurately over predetermined drilling site. Fastens drill rod into machine, inserts core tube into end of drill rod, and attaches water swivel to top end of drill rod using wrench. Attaches additional lengths of drill rod as bit advances. Ensures supply of water. Mixes mud, soluble oil or other additive.

May lubricate equipment and help to make minor repairs. May label core samples indicating area and depth from which sample was obtained. May drive water tanker to drilling site.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9y	IP: T1-2m
HC: R	RQ: L2 D1 V2 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 N1 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 U1 C1 H1 W1 E5	SA: S1
<i>Context</i>	
EC: M1 L2 C02,03,04	TC: A1 I1 R2
SS: 6	SC: 6 ( 0y)
LMS: 50-100 (0 %SE)	ASIC: 16

5393

MINE SAMPLING OCCUPATIONS

This unit group covers occupations concerned with taking rock or shale samples for testing to determine ore grade.

**Entry Requirements** Year 9-12 plus 3 months to 2 years' experience.

**Activities include** collecting samples from production faces, blast holes, railway cars, conveyor belts or preparation plants in underground or open cut mines; marking samples for later identification and performing sample preparation tests.

**5393-A MINE SAMPLER (UNDERGROUND, NON-COAL)**

Takes hard-rock samples from working face and ore trucks in underground mine for assaying to determine potential mineral yield.

Washes working face to remove dust in order to facilitate observation and identification of strata and type of rock or ore. Marks out ore bodies in working face using chalk. Marks out remaining rock into metre wide divisions to ensure broad sampling of working face. Notes distance and direction from stope walls or other reference points in mine. Using geologist's pick, chips samples from each ore body and marked out division. Places samples into collecting bags of different colours according to anticipated yield of mineral. Removes samples of broken ore from every ore truck and places in containers. Marks containers to identify source of sample contained.

**Job Content Factors**

<i>Workers</i>	
FP: GE9y	IP: T3m E6m
HC: RC	RQ: D1 V2 A2
<i>Materials</i>	
SM: D1 T2	EQ: S1 N1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: U1 H1 W1 E2	SA: S1
<i>Context</i>	
EC: L1 C02,05,06	TC: A1 I1 R2
SS: 7	SC: 7 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 11,15

**5393-B COAL SAMPLER**

Collects, blends and grades coal samples for laboratory analysis.

Collects samples of coal and coke from locations such as railway cars, conveyors or various plants in underground or open cut coal mines at specified intervals under direction of coal sample tester. Places material into bottle or bag or into machines that grind or blend samples, and crushes and ruffles them for sample preparation. Weighs segregated materials, separates using small scale and computes portion of each in total sample. Weighs and dries sample in oven, reweighs material and computes moisture content. Records place of origin and total weekly sample production, and labels samples to indicate data such as type, origin, grit size, moisture and ash content.

**Job Content Factors**

<i>Workers</i>	
FP: GE12y	IP: T3w E3-6m
HC: RC	RQ: D1 V2 A2
<i>Materials</i>	
SM: D1 P2 T2	EQ: P1 S1 N2 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P1 U1 H1 W1 B2 E2	SA: S1
<i>Context</i>	
EC: L1 C02,05,06	TC: A1 I1 R2
SS: 7	SC: 7 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 12

**5393-C MINE SAMPLER (OPEN CUT, NON-COAL)**

Takes samples of earth from drill holes for assaying to

determine potential mineral yield.

Collects sample of drilled material from each blast hole, ensuring that sample contains material from various depths. Places sample in bag and numbers according to number on blast hole survey peg. Takes samples to laboratory for analysis. Collects assay reports and delivers to ore grading data processors. Colours blast plans according to determined grade of ore from each blast hole. Informs surveyor of any blast holes drilled additional to those marked on drill plan.

May assist in sample preparation and splitting of diamond drill cores. May assist surveyors, performing duties of 8000-F SURVEYORS' CHAINMAN/ÖOMAN, or geologists. May perform other general support duties as required.

**Job Content Factors**

<i>Workers</i>	
FP: GE9y	IP: T2-4w E3-6m
HC: RC	RQ: D1 V2
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C2 H1 W1 B2 E2	SA: S1
<i>Context</i>	
EC: L2 C02,06,05	TC: A1 I1 R2
SS: 6	SC: 6 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 11,14,15

**5393-D COAL SAMPLE TESTER  
Coal Doctor; Quality Control Supervisor  
(Coal Mining)**

Collects, crushes, grinds and separates coal samples and performs routine evaluation tests including determining coke content.

Directs coal sampler to collect samples from underground or open cut coal mines for laboratory analysis. Collects samples of coal from designated areas using geological pick, shovel and bucket, and cans or bags. Starts shuttle to pulverise coal. Removes coal from crusher and places it in oven to dry. Weighs samples before and after drying using balances to determine moisture content. Sends portion of sample to laboratory for chemical analysis. Records number and results of tests performed. Supervises core sampling by exploration and drilling crews, and writes up drill logs.

**Job Content Factors**

<i>Workers</i>	
FP: GE12y	IP: T1y E2y
HC: RCE	RQ: D1 V2 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S1 N1 M1
<i>Functions</i>	
MA: D2 R3 M3 L2	
PA: P1 U1 C2 H1 W1 E2	SA: S1 B2 R4
<i>Context</i>	
EC: L1 C02,05,06	TC: A1 I1 R2
SS: 7	SC: 7 ( 0y)
LMS: 10-100 (0 %SE)	ASIC: 12

**5393-Z MINE SAMPLING OCCUPATIONS nec**

This residual group covers mine sampling occupations not elsewhere classified in Unit Group 5393.

5399 OTHER MINING AND RELATED OCCUPATIONS

This residual unit group covers occupations concerned with performing mining and related activities not elsewhere classified in Major Group 53.

**Activities include** issuing, receiving, repairing and recharging portable miners' head lamps and emergency breathing apparatus.

5399-A LAMPMAN/WOMAN  
Lamproom Attendant; Lamproom Mechanic

Repairs and issues electric and safety lamps, and emergency breathing apparatus used by underground miners.

Issues service and flame safety lamps at start of shift and receives lamps from miners at end of shift. Places in appropriate storage slot in lamp room according to name or number on lamp. Checks amperage of battery and connects to recharger if required. Cleans lamps using rags, brushes and steel wool. Inspects lamps for malfunctions. Repairs or replaces faulty contacts, wires or globes from lamp assembly and replaces damaged cords and reflectors as required.

May also clean changing rooms and showers and be designated accordingly, e.g.

Lamp and Bathroom Attendant; Lamp and Washroom Attendant

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE9-10y	IP: T2m E2y
HC: RC	RQ: D1 V1 A2
<i>Materials</i>	
SM: D2 T1	EQ: S1 N1
<i>Functions</i>	
MA: P2 D3 R3 M3 L3	
PA: U1 H1 S2 W2 E2	SA: L1
<i>Context</i>	
EC: L1 C06,02,10	TC: A1 I1 R2
SS: 7	SC: 7 ( 0y)
LMS: 100-300 (0 %SE)	ASIC: 11,15

5399-Z MINING AND RELATED OCCUPATIONS  
nec

This residual group covers mining and related occupations not elsewhere classified in Major Group 53, e.g.

Coring Engineer  
Field Assistant, Geological Survey; Survey Assistant  
Radiation Assistant, Uranium Mining/Processing



## **SUPER GROUP 6**

### **Manufacturing and Construction Occupations**

Manufacturing and Construction Occupations are classified in the following major groups.

- 60 Metal Working Occupations
- 61 Electrical Occupations
- 62 Woodworking Occupations
- 63 Chemical Processing Occupations
- 64 Clay, Glass and Stone Working Occupations
- 65 Food Processing Occupations
- 66 Textile Processing Occupations
- 67 Printing Occupations
- 68 Construction Occupations

## SECTOR GROUP 6

### Manufacturing and Construction Occupations

Manufacturing and Construction Occupations are classified in the following major groups:

- 60 Metal Working Occupations
- 61 Electrical Occupations
- 62 Woodworking Occupations
- 63 Chemical Processing Occupations
- 64 Clay, Glass and Stone Working Occupations
- 65 Food Processing Occupations
- 66 Textile Processing Occupations
- 67 Printing Occupations
- 68 Construction Occupations

## **MAJOR GROUP 60**

### **METAL WORKING OCCUPATIONS**

Metal Working Occupations are classified in the following minor groups.

- 600 Metal Processing Occupations
- 601 Metal Forming and Treating Occupations
- 602 Metal Machining Occupations
- 603/4 Metal Shaping and Forming Occupations,  
Except Machining
- 605 Metal Fabricating, Assembling,  
Maintaining and Repairing Occupations
- 606 Precision Instrument, Jewellery and  
Silverware Working Occupations
- 607 Inspectors, Metal Working Occupations
- 608 Process Workers, Metal and Metal  
Products

## 600 METAL PROCESSING OCCUPATIONS

- 6000 SUPERVISORS/FOREMEN/WOMEN, METAL PROCESSING OCCUPATIONS**  
 6000-A Foreman/woman, Smelting, Reduction and Converting Occupations (Mineral Ores)  
 6000-B Foreman/woman, Furnace Occupations  
 6000-C Foreman/woman, Moulding, Coremaking and Metal Casting Occupations
- 6001 FURNACE OPERATORS AND SMELT HANDS (FERROUS; NON-FERROUS METALS)**  
 6001-A Open Hearth Furnace Operator  
 6001-B Blast Furnace Operator (Iron and Steel)  
 6001-C Oxygen (BOS) Furnace Operator  
 6001-Z Furnace Operators and Smelt Hands (Ferrous; Non-Ferrous Metals) nec
- 6002 FURNACE AND ELECTROLYTIC CELL ATTENDANTS AND POT OPERATORS**  
 6002-A Pot Operator (Aluminium)  
 6002-B Electrolytic Cell Attendant  
 6002-Z Furnace and Electrolytic Cell Attendants and Pot Operators nec
- 6003 METAL MOULDING AND COREMAKING TRADE OCCUPATIONS**  
 6003-A Jobbing Moulder-Coremaker
- 6004 PATTERNMAKING TRADE OCCUPATIONS, METAL CASTING**  
 6004-A Patternmaker, Metal Casting
- 6005 MOULDING AND COREMAKING MACHINE OPERATORS**  
 6005-A Machine Moulder
- 6006 METAL CASTING NON-TRADE OCCUPATIONS**  
 6006-A Casting Machine Operator  
 6006-B Ladleman/woman (Ferrous; Non-Ferrous Metals)
- 6007 APPRENTICE FOUNDRY OCCUPATIONS**  
 6007-A Apprentice Jobbing Moulder-Coremaker  
 6007-B Apprentice Patternmaker, Metal Casting

## 601 METAL FORMING AND TREATING OCCUPATIONS

- 6010 SUPERVISORS/FOREMEN/WOMEN METAL FORMING AND TREATING OCCUPATIONS**  
 6010-A Foreman/woman, Metal Rolling Mill Occupations  
 6010-B Foreman/woman, Metal Extruding and Drawing Occupations  
 6010-C Foreman/woman, Metal Heat Treating Occupations  
 6010-D Foreman/woman, Metal Surface Finishing Occupations
- 6011 METAL ROLLING MILL OPERATORS**  
 6011-A Rolling Attendant, Iron and Steel  
 6011-B Rolling Mill Operator (Ferrous; Non-Ferrous Metals)
- 6012 METAL ROLLING MILL ASSISTANTS**  
 6012-A Rolling Mill Assistant
- 6013 METAL EXTRUDING AND DRAWING MACHINE OPERATORS**  
 6013-A Extrusion Press Operator, Metal  
 6013-B Wire Drawer  
 6013-C Sheathing Extruder
- 6014 METAL HEAT TREATING OCCUPATIONS**  
 6014-A Heat Treatment Operator, General  
 6014-B Annealer  
 6014-C Hardener  
 6014-D Temperer  
 6014-E Case Hardener  
 6014-F Soaking Pit Furnace Operator
- 6015 METAL FINISHING TRADE OCCUPATIONS**  
 6015-A Electroplater, First Class  
 6015-B Electroformer  
 6015-C Metal Polisher, First Class
- 6016 METAL FINISHING OCCUPATIONS, NON-TRADE**  
 6016-A Electroplater, Second Class  
 6016-B Metal Sprayer  
 6016-C Metal Polisher, Second Class
- 6017 APPRENTICE METAL FINISHING OCCUPATIONS**  
 6017-A Apprentice Electroplater  
 6017-B Apprentice Metal Polisher
- 6019 OTHER METAL PROCESSING OCCUPATIONS**  
 6019-Z Metal Processing Occupations nec

## 602 METAL MACHINING OCCUPATIONS

- 6020 SUPERVISORS/FOREMEN/WOMEN, METAL MACHINING OCCUPATIONS**  
 6020-A Supervisor/Foreman/woman, Tool Room  
 6020-B Supervisor/Foreman/woman, Machine Room
- 6021 TOOLMAKERS**  
 6021-A Tool Designer  
 6021-B Toolmaker
- 6022 MACHINISTS, FIRST CLASS**  
 6022-A Machinist, First Class
- 6023 FITTERS**  
 6023-A Fitter-Machinist  
 6023-B Maintenance Fitter  
 6023-C Fitter
- 6024 MACHINISTS, SECOND CLASS AND OTHER MACHINE SETTERS**  
 6024-A Machinist, Second Class  
 6024-B Tool and Die Setter
- 6025 APPRENTICE METAL MACHINING OCCUPATIONS**  
 6025-A Apprentice Toolmaker  
 6025-B Apprentice Fitter-Machinist
- 6029 OTHER METAL MACHINING OCCUPATIONS**  
 6029-Z Metal Machining Occupations nec

**603/4 METAL SHAPING AND FORMING OCCUPATIONS, EXCEPT MACHINING****6030 SUPERVISORS/FOREMEN/WOMEN, METAL SHAPING AND FORMING OCCUPATIONS, EXCEPT MACHINING**

- 6030-A Supervisor/Foreman, Forging
- 6030-B Supervisor/Foreman/woman, Sheet Metalworking
- 6030-C Supervisor/Foreman/woman, Welding and Flamecutting
- 6030-D Supervisor/Foreman/woman, Metal Fabricating and Structural Metalworking
- 6030-E Foreman/woman, Metal Spinning and Metalworking Machine Operating

**6031 FORGING TRADE OCCUPATIONS**

- 6031-A Blacksmith
- 6031-B Master Farrier (Apprenticed)
- 6031-C Forging Smith

**6032 SHEET METAL TRADE OCCUPATIONS**

- 6032-A Patternmaker, Sheet and Structural Metal
- 6032-B Sheet Metal Worker, First Class
- 6032-C Coppersmith

**6033 SHEET METAL NON-TRADE OCCUPATIONS**

- 6033-A Sheet Metal Worker, Second Class (Manufacturing)
- 6033-B Sheet Metal Worker, Second Class (Installation)

**6034 WELDING TRADE OCCUPATIONS**

- 6034-A Pressure Welder
- 6034-B Welding Tradesperson

**6035 WELDING NON-TRADE MACHINE OPERATORS**

- 6035-A Gas-Shielded-Arc Welding Machine Operator
- 6035-Z Welding Non-Trade Machine Operators nec

**6036 MANUAL WELDING AND FLAMECUTTING NON-TRADE OCCUPATIONS**

- 6036-A Electric-Arc Welder
- 6036-B Gas Welder/Cutter
- 6036-C Brazier
- 6036-D Solderer

**6037 BOILERMAKING AND STRUCTURAL STEEL TRADE OCCUPATIONS**

- 6037-A Metal Fabricator
- 6037-B Structural Steel Tradesperson

**6038 SHIPWRIGHTS, METAL**

- 6038-A Shipwright, Metal

**6040 METAL SPINNERS**

- 6040-A Metal Spinner

**6041 APPRENTICE METAL SHAPING AND FORMING OCCUPATIONS, EXCEPT MACHINING**

- 6041-A Apprentice Blacksmith
- 6041-B Apprentice Farrier
- 6041-C Apprentice Sheet Metal Worker
- 6041-D Apprentice Coppersmith
- 6041-E Apprentice Welder
- 6041-F Apprentice Metal Fabricator
- 6041-G Apprentice Shipwright, Metal
- 6041-H Apprentice Metal Spinner

**6049 OTHER METAL SHAPING AND FORMING MACHINE OPERATORS**

- 6049-A Metal Shaping and Forming Machine Operator
- 6049-Z Metal Shaping and Forming Machine Operators nec

**605 METAL FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS****6050 SUPERVISORS/FOREMEN/WOMEN, METAL FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS**

- 6050-A Supervisor/Foreman/woman, Aircraft Fabricating, Assembling, Maintaining and Repairing Occupations
- 6050-B Supervisor/Foreman/woman, Automobile Fabricating, Assembling, Maintaining and Repairing Occupations
- 6050-Z Supervisors/Foremen/women, Metal Fabricating, Assembling, Maintaining and Repairing Occupations nec

**6051 AIRCRAFT GROUND ENGINEERS**

- 6051-A Aircraft Ground Engineer, Engines
- 6051-B Aircraft Ground Engineer, Airframes
- 6051-C Aircraft Engineer, Line Maintenance
- 6051-D Aircraft Inspector

**6052 VEHICLE MECHANICS**

- 6052-A Motor Mechanic
- 6052-B Diesel Motor Mechanic
- 6052-C Brake Mechanic

**6053 PANEL BEATERS**

- 6053-A Panel Beater

**6054 VEHICLE PAINTERS**

- 6054-A Vehicle Painter

**6055 VEHICLE BODY MAKING OCCUPATIONS**

- 6055-A Vehicle Trimmer
- 6055-B Body Maker, First Class

**6056 APPRENTICE METAL FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS**

- 6056-A Apprentice Aircraft Ground Engineer, Engines
- 6056-B Apprentice Aircraft Ground Engineer, Airframes
- 6056-C Apprentice Motor Mechanic
- 6056-D Apprentice Brake Mechanic
- 6056-E Apprentice Panel Beater
- 6056-F Apprentice Vehicle Painter
- 6056-G Apprentice Vehicle Trimmer
- 6056-H Apprentice Bodymaker

**6059 OTHER METAL FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS**

- 6059-A Serviceman/woman, Mechanical Equipment
- 6059-Z Metal Fabricating, Assembling, Maintaining and Repairing Occupations nec

## PRECISION INSTRUMENT, JEWELLERY AND SILVERWARE WORKING OCCUPATIONS

### 6060 SUPERVISORS/FOREMEN/WOMEN, PRECISION INSTRUMENTS, JEWELLERY AND OTHER METAL PRODUCTS

- 6060-A Supervisor/Foreman/woman, Precision and Other Instruments  
6060-B Supervisor/Foreman/woman, Jewellery and Silverware Occupations

### 6061 PRECISION INSTRUMENTS FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS

- 6061-A Precision Instrument Maker and Repairer  
6061-B Office Mechanical Equipment Serviceman/woman  
6061-C Watch and Clock Repairer

### 6062 SPECIALISED FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS

- 6062-A Locksmith  
6062-B Saw Maker and Repairer  
6062-C Gunsmith

### 6063 JEWELLERY AND PRECIOUS METALWARE FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING TRADE OCCUPATIONS

- 6063-A Jewellery Maker and Repairer  
6063-B Gem Cutter  
6063-C Gem Setter and Engraver  
6063-D Precious Metal Smith  
6063-E Jewellery and Precious Metalware Finisher

### 6064 APPRENTICE PRECISION INSTRUMENTS, JEWELLERY AND OTHER METAL PRODUCTS OCCUPATIONS

- 6064-A Apprentice Precision Instrument Maker  
6064-B Apprentice Office Mechanical Equipment Serviceman/woman  
6064-C Apprentice Watch and Clock Repairer  
6064-D Apprentice Locksmith  
6064-E Apprentice Saw Maker and Repairer  
6064-F Apprentice Diamond Cutter  
6064-G Apprentice Jewellery Maker and Repairer  
6064-H Apprentice Silversmith  
6064-I Apprentice Silverware Polisher

## INSPECTORS, METAL WORKING OCCUPATIONS

### 6070 INSPECTORS, METAL PROCESSING, MACHINING, SHAPING AND FORMING

- 6070-A Pressure Weld Inspector  
6070-B Quality Control Inspector, Metal Processing, Machining, Shaping and Forming

### 6071 INSPECTORS, METAL PRODUCTS FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING

- 6071-A Automobile Inspector  
6071-B Quality Control Inspector (Metal Products) nec

## PROCESS WORKERS, METAL AND METAL PRODUCTS

### 6080 SUPERVISORS/FOREMEN/WOMEN, PROCESS WORKERS, METAL AND METAL PRODUCTS

- 6080-A Supervisor/Foreman/woman, Process Workers, Metal and Metal Products

### 6081 TRADES ASSISTANTS, METAL AND METAL PRODUCTS

- 6081-A Trades Assistant, Metal and Metal Products

### 6082 PROCESS WORKERS, METAL AND METAL PRODUCTS

- 6082-A Carbon Plant Worker  
6082-B Production Worker, Metal Processing  
6082-C Production Worker, Metal Finishing  
6082-D Process Worker, Jewellery Assembly  
6082-E Process Worker, Assembly (Metal)  
6082-F Process Worker, Machine Operation (Metal)  
6082-G Process Worker, Testing and Examining (Metal)  
6082-Z Process Workers, Metal and Metal Products nec

MINOR GROUP 600  
METAL PROCESSING OCCUPATIONS

Metal Processing Occupations are classified in the following unit groups.

- 6000 Supervisors/Foremen/women, Metal Processing Occupations
- 6001 Furnace Operators and Smelt Hands (Ferrous; Non-Ferrous Metals)
- 6002 Furnace and Electrolytic Cell Attendants and Pot Operators
- 6003 Metal Moulding and Coremaking Trade Occupations
- 6004 Patternmaking Trade Occupations, Metal Casting
- 6005 Moulding and Coremaking Machine Operators
- 6006 Metal Casting Non-Trade Occupations
- 6007 Apprentice Foundry Occupations

6000 SUPERVISORS/FOREMEN/WOMEN, METAL PROCESSING OCCUPATIONS

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in processing mineral ore concentrates and/or scrap metal to produce molten metal and the pouring of molten metal into moulds to form ingots or castings.

**Entry Requirements** Year 10 plus substantial industrial experience and trade qualifications where necessary.

**Activities include** those described under Master Title SUPERVISOR/FOREMAN/WOMAN.

6000-A FOREMAN/WOMAN, SMELTING, REDUCTION AND CONVERTING OCCUPATIONS (MINERAL ORES)

Supervises and co-ordinates activities of workers engaged in heating mineral concentrates to change from solid to liquid state for combining with other materials or pouring into moulds or granulators.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN and as described in the definition for Unit Group 5340 FOREMEN/WOMEN/SUPERVISORS, MINERAL ORE TREATING OCCUPATIONS. Supervises the activities of personnel employed to operate dryers, kilns, electric furnaces and converters, and related control room personnel. Monitors exhaust, stack and precipitator emissions to ensure that emissions are kept within limit of relevant environmental regulations. Monitors control devices to ensure that maximum recovery is maintained. Completes log books and other reports as required.

May assist workers to pour molten metal from ladles into moulds or granulators, monitoring granulator product size to ensure specification of granule size is maintained.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP	IP: E3-5y
or FP: GE11y PSP2y(PPC)	IP: E2y
HC: REC	RQ: Q1 V1 A1
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 M2
<i>Functions</i>	
MA: I2 A2 P1 D2 R2 M2 L2	
PA: U2 S2 W2 E3	SA: S2 L1 B1 R2-3
<i>Context</i>	
EC: L1 C01,02,06	TC: A1 I1 T2
SS: 5	SC: 8 ( 3y)
LMS: NA (0 %SE)	ASIC: 29

6000-B FOREMAN/WOMAN, FURNACE OCCUPATIONS

Supervises and co-ordinates activities of workers engaged in smelting, refining, melting, reducing, converting and heating ferrous and non-ferrous metals; charging furnace with specified material; adjusting temperature and tapping and pouring molten metal into ladles or moulds to form ingots or billets.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May be concerned with a particular type of furnace or activity and be designated accordingly, e.g.

Foreman/woman, Blast Furnace  
Foreman/woman, Open Hearth Furnace  
Melter, Steelmaking

#### Job Content Factors

##### Workers

FP: GE10y PSP IP: T2-3y E6-12y  
or FP: GE11y PSP2y(PPC) IP: E2y  
HC: RJE RQ: D1 V1

##### Materials

SM: D2 P2 T1 EQ: P2 M2

##### Functions

MA: I2 A2 P1 D2 R2 M2 L2  
PA: U2 S2 W2 E3 SA: S2 L1 B1 R2-3

##### Context

EC: L1 C01,02,06 TC: A1 I1 T2  
SS: 5 SC: 8 (3 y)

LMS: NA (0 %SE)

ASIC: 29

### 6000-C FOREMAN/WOMAN, MOULDING, COREMAKING AND METAL CASTING OCCUPATIONS

Supervises and co-ordinates activities of workers engaged in

making moulds or cores, and pouring molten metal into moulds, to form ingots or castings.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May be concerned with a particular activity and be designated accordingly, e.g.

Foreman/woman, Moulding Foreman/woman, Mouldyard  
Foreman/woman, Casting Foreman/woman, Casting Pit

#### Job Content Factors

##### Workers

FP: GE10y PSP2-4y(PPC) / (T) IP: T2-3m E2-6y  
or FP: GE10y IP: T2-3y E6y  
HC: RIE RQ: D1 V1

##### Materials

SM: D2 I2 P2 T1 EQ: P2 S2 M2

##### Functions

MA: A2 P1 D2 R2 M2 L2  
PA: P2 U2 S2 W2 E3 SA: S2 L2 B1 R2-4

##### Context

EC: L1 C09,01,06 TC: A1 I1 T2  
SS: 5 SC: 8 (3 y)

LMS: NA (0 %SE)

ASIC: 29,31,32,33

## 6001 FURNACE OPERATORS AND SMELT HANDS (FERROUS; NON-FERROUS METALS)

This unit group covers occupations concerned with operating and tending furnaces used in the process of smelting minerals or converting and refining metal.

**Entry Requirements** 1-5 years' industrial experience in furnace or furnace related occupations. A high level of responsibility for plant, product quality and personnel safety is inherent in these occupations.

**Activities include** setting furnace controls to regulate temperature and control fuel supply; observing pyrometer to determine temperature of metal; supervising the charging of the furnace; performing the more routine furnace tasks.

### 6001-A OPEN HEARTH FURNACE OPERATOR

Directs the operation of an open hearth furnace in which iron is refined to produce steel.

Supervises charging of furnace with materials such as scrap iron, molten iron and lime. Sets controls to regulate furnace temperature and supply of fuel and air. Reverses flow of air at intervals as required to distribute heat. Opens furnace doors and supervises addition to furnace of oxidising and alloy additives. Observes pyrometer to determine temperature of metal. Obtains sample of molten metal for laboratory analysis. Observes colour of molten metal to determine when to tap the furnace. Directs crew in tapping furnace and adding specified de-oxidising agents.

#### Job Content Factors

##### Workers

FP: GE NFR IP: T6-12m E5y  
HC: RIE RQ: D1 V2

##### Materials

SM: D2 P2 T1 EQ: P1 M1

##### Functions

MA: A2 P2 D2 R3 M3 L2  
PA: U1 C2 W1 E3 SA: S2 L2 B1 R3-4

##### Context

EC: L1 C01,02,06 TC: A1 I1 R2  
SS: 4 SC: 5 (7 y)

LMS: NA (0 %SE)

ASIC: 294

### 6001-B BLAST FURNACE OPERATOR (IRON AND STEEL)

Assists in the operation of blast furnace to smelt iron ore.

Performs a combination of the following tasks. Ensures that all runners, dams, spouts etc. are prepared as required for each tapping operation; cleans runners on completion of tapping operation; rebuilds sand dams blocking various branches of runners; relines runners with refractory material where necessary. Sets ladles for slag and molten metal in position. As directed cuts into clay stopper sealing tap hole, using hammer and wedge or portable pneumatic drill, burns through last part with oxygen lance. Ensures that molten metal flows freely; knocks down sand dams to divert flow of metal or slag to empty ladles. On completion of tapping, reseals tap hole with clay stopper using mud gun. Cleans and refills mud gun with clay. Supplies heated air blast to blast furnace by operating two or more stoves. Operates controls to feed gas air to stove, ignite burners in combustion chamber,

blow blast of cold air to be treated through stove, maintain hot air blast at required temperature. Uses stoves in turn to provide continuous blast of hot air to furnace.

Is designated according to duties performed, e.g.  
 Helper (Blast Furnace)      Slagger  
 Stoveman

**Job Content Factors**

<i>Workers</i>	
IP: GE NFR	IP: T6-12m E1-5y
HC: RIE	RQ: D1 V2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 M1
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: U1 C2 W1 E3	SA: S2 L2 B1 R3-4
<i>Context</i>	
EC: L1 C01,02,12	TC: A1 I1 R2
SS: 4	SC: 5 (7 y)
LMS: NA (0 %SE)	ASIC: 29

**6001-C      OXYGEN (BOS) FURNACE OPERATOR**  
**Basic Oxygen Steelmaking (BOS)**  
**Furnaceman/woman**

Operates oxygen furnace and auxiliary equipment to produce specified types of steel.

Moves controls to position furnace for charging operations. Observes temperature gauges and recorders to maintain heat at specified level. Operates controls to position oxygen lance and regulate the flow of oxygen through lance into charge. Operates controls to adjust hood draft when furnace overheats. Operates controls to position transfer car, carrying ladle and slag pots under taphole and to tilt furnace for tapping operations. Calculates amount of hot metal, scrap, sinter and additives required for charge.

May set weight indicator gauge according to specified amount of additives to be added to charge, e.g. fluorspar, lime and alloys. May operate controls that releases additives from bins onto conveyor leading to chute over furnace.

**Job Content Factors**

<i>Workers</i>	
FP: GE NFR	IP: T6-12m E5y
HC: RIE	RQ: D1 V2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 M1
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: U2 C2 W1 E3	SA: S2 L2 B1 R3-4

**Context**

EC: L1 C01,02,06	TC: A1 I1 R2
SS: 4	SC: 5 (7 y)

LMS: NA (0 %SE)

ASIC: 294

**6001-Z      FURNACE OPERATORS AND SMELT HANDS (FERROUS; NON-FERROUS METALS) nec**  
**Kettleman; Smelt Hand; Smelter**

Operates non-electrolytic furnace, kiln or kettle to smelt minerals or melt metal prior to casting, performing any combination of the following duties.

Weighs and charges, or directs charging of metal ingots, scrap metal or mineral ore into furnaces by hand, using hoist or by directing crane operator. Loads molten metal into furnace, using transfer ladle or siphon. Operates controls to start furnace or kiln, and observing instruments such as pyrometers and ammeter; adjusts controls to maintain specified temperatures, pressures and flow ratios at each stage of process. Adds fluxing agents to molten metal to bring impurities to the surface and skims off slag or directs tapping of slag as required. At intervals skims off crust of contaminants which forms on surface of kettle and transfers crust to hydraulic presses to remove any liquid metal.

May obtain sample of molten metal for laboratory analysis using sampling spoon and mould. May, after referring to laboratory analysis, calculate, weigh and add additional elements to bring furnace on grade according to customer specifications; after specified time taps molten metal and slag into moulds or ladles or removes container from furnace or kiln using tongs, chains and pulleys, or skims of resultant crust at end of decontamination process and either operates pumps to run cooled metal into further processing units, allows to cool in container or pours into moulds. May remove, weigh and stamp moulded mineral. May drill hole in each bar to take sample for proof assay. May repair furnace linings. May be designated according to type of furnace operated, e.g.

Electric Arc Furnace Operator; Electric Arc Furnaceman  
 Gas Furnace Operator; Gas Furnaceman  
 Induction Furnace Operator  
 Vacuum Furnace Operator; Vacuum Furnaceman

May be designated according to metal produced, e.g.  
 Cupelman (Silver)      Smelt Hand (Gold)  
 Furnaceman (Lead Smelting); Lead Smelter  
 Furnace Operator (Zinc); Furnaceman (Zinc)  
 Kettleman (Lead); Desilveriser

**6002 FURNACE AND ELECTROLYTIC CELL ATTENDANTS AND POT OPERATORS**

This unit group covers occupations concerned with tending furnaces or reduction pots or electrolytic equipment used to refine or smelt ferrous or non-ferrous metals.

**Entry Requirements** no formal requirements.

**Activities include** charging furnace or pot with raw materials; skimming dross from surface of molten metal; preparing tapholes prior to tapping; and preparing receptacle such as crucible for molten metal.

**6002-A      POT OPERATOR (ALUMINIUM)**

Tends battery of reduction pots that smelt alumina (aluminium oxide) to aluminium, performing any combination

of the following duties.

Preserves optimal operating conditions of the pot by breaking crust, using breaking machine to allow alumina to descend into bath; maintaining supply of alumina to the pot for the continuous reduction process; dispersing gas that collects beneath the carbon anode and inhibits current flow and changing carbon anodes according to schedule. Prepares crucible for tapping run by cleaning sealing surfaces, clamping lid to crucible, attaching scales and siphoning tip. Preheats crucible as required. Prepares tap holes in alumina crust prior to tapping. Guides siphoning tip into prepared tap hole, observes scale readings and operates control valve. Removes dross from surface of metal before transporting to the casting department. Cleans equipment. Shuts down pot as directed.

**Job Content Factors**

<i>Workers</i>	
FP: GE NFR	IP: T3-6m
HC: RI	RQ: D1 V2
<i>Materials</i>	
SM: D2 T1	EQ: N2 M1 V2
<i>Functions</i>	
MA: P2 D3 R4 L3	
PA: U2 C2 H1 W1 E3	SA: S1
<i>Context</i>	
EC: L1 C01,10,02	TC: A1 I1 R2
SS: 4	SC: 5 (7 y)
LMS: NA (0 %SE)	ASIC: 295

**6002-B****ELECTROLYTIC CELL ATTENDANT  
Electrolytic Refiner (Excluding Aluminium)**

Operates or attends one or more tanks or vats in which metals, other than aluminium, are refined by electrolytic process.

Performs a combination of the following duties. Prepares appropriate electrolytic solution. Positions anode and cathode above tank or vat and lowers into electrolytic solution and turns on current. Where applicable, lights boiler and adjusts flame to ensure that correct temperature is maintained. During process, checks and records temperature of electrolyte and electric current ratings and adjusts as necessary. Recycles solution through tank to obtain even heating. Controls rate of solution through electrolytic cells and replenishes electrolyte as required. During refining process, where applicable, ensures that metal does not build up and short circuit anodes and cathodes. Removes cathodes bearing deposit of almost pure metal. Removes spent anodes and electrolytic residue for cleaning and re-use.

May prepare anode and cathode sheets. May, if refining gold or silver, remove cathodes bearing gold or silver deposits and wash crystals or cathodes to remove electrolyte; add acid to

gold coated steel wool cathode to dissolve steel wool; wash gold crystals to remove residue chemicals. May be designated according to metal produced, e.g.

Electrolytic Cell Attendant (Gold)

Electrolytic Refiner (Copper)

Electrolytic Refiner (Silver)

**Job Content Factors**

<i>Workers</i>	
FP: GE NFR	IP: T1y
HC: R	RQ: D1
<i>Materials</i>	
SM: T1	EQ: S1 N1 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C2 H1 W1 E3	SA: S1
<i>Context</i>	
EC: L1 C01,02,08	TC: A1 I1 R2
SS: 4	SC: 5 (7y)
LMS: NA (0 %SE)	ASIC: 29

**6002-Z****FURNACE AND ELECTROLYTIC CELL  
ATTENDANTS AND POT OPERATORS  
nec**

Assists, under the direction of furnace operator, in the operation of a furnace in which iron is refined to produce steel or in which metals are melted to form alloys, by performing any combination of the following duties.

Charges furnace with materials such as scrap, ore, flux, reagents, oxides, pellets or coke by moving levers to open bin or hopper gates, by shovelling or by signalling crane loading crew. Turns valves to force air through tuyeres into molten metal to oxidise impurities. Skims slag from molten metal, using bar or ladle. Signals crane crew or uses electric hoist to position ladles near furnace. Operates pulpit controls as directed to tilt furnace for charging or tapping of metal or slag. Opens and closes tapholes as directed. Takes sample of molten metal for laboratory analysis. Controls furnace heat by regulating fuel flow. Takes furnace temperature, using a pyrometer, as required. Adds deoxidising and alloying materials to furnace or ladles during heating or tapping as directed. Assists in installing electrodes and furnace cooling system. Maintains furnace tools in good order. Keeps furnace area clean and free from spillages. Assists in repairing (fettling) furnace lining. Cleans and repairs tapholes and hot metal chutes (launders).

May be designated according to task performed, e.g.

Alloy Attendant

First Helper, Furnace

Furnace Charger

Second Helper, Furnace

**6003 METAL MOULDING AND COREMAKING TRADE OCCUPATIONS**

This unit group covers occupations concerned with forming moulds and cores for metal castings.

**Entry Requirements** a trade qualification in moulding and coremaking.

**Activities include** forming moulds and cores from pattern, using hand and power tools and equipment; assembling completed halves of mould and cores prior to casting; directing workers performing the more routine moulding and coremaking tasks; and supervising the pouring of the casting.

**6003-A****JOBGING MOULDER-COREMAKER  
Moulder; Coremaker**

Forms sand moulds and cores for production of metal

castings, using hand and power tools, patterns and flasks, and applying knowledge of variables, such as contours of patterns, moulding and core sands, metal characteristics and pouring

procedures.

Sets lower half of pattern on moulding board and encloses with frame of lower half of moulding box (drag). Applies parting agent to pattern as required. Positions vents to allow gases to escape. Sifts sand around pattern face, fills box with sand and packs it in place, using hand ramming tools or pneumatic hammers. Turns moulding box over, directing crane driver as necessary, and secures other half of pattern to first half. Fixes top half of moulding box (cope) and repeats moulding operation. Lifts cope from drag and removes pattern. Repairs damaged mould surfaces using hand tools. Applies refractory paint as required. Positions specified cores in mould, rejoins and secures drag and cope. Pours molten metal into mould, using ladle, or supervises others filling mould.

May carry out 'sweep' moulding by rotating a template (strickle) about a spindle until mould impression is scraped to desired circular shape.

Job Content Factors	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RIE	RQ: D2 V2
<i>Materials</i>	
SM: D2 T1	EQ: P1 S2 M1 K2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L3	
PA: P2 U1 C2 H2 W1 E4	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1 C01,09,06	TC: A1 I1 R2
SS: 4	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 29,31

6004    PATTERNMAKING TRADE OCCUPATIONS, METAL CASTING

This unit group covers occupations concerned with making and assembling wooden patterns used in forming sand moulds.

**Entry Requirements** a trade qualification in patternmaking (foundry).

**Activities include** laying out pattern on wood stock; cutting and shaping pattern parts, using woodworking tools and equipment; fitting and assembling parts; checking and finishing assembled pattern.

*Related Occupation*

Occupation 6032-A    : Patternmaker, Sheet and Structural Metal

6004-A    PATTERNMAKER, METAL CASTING

Plans, lays out and fabricates wooden mould patterns used in forming sand moulds into which molten metal is poured, to form metal castings.

Makes full-size section drawing on layout board to assist in planning for construction and moulding of pattern, taking into account certain aspects of the patternmaking process, e.g. shrinkage of metal, machining and taper to allow pattern to be withdrawn from the sand mould. Lays out drawing on wood stock and divides patterns into sections to facilitate removal of pattern from mould utilising knowledge of moulding and casting techniques, and using marking and measuring devices, such as scribe, shrink-rule and square. Cuts and shapes parts, using woodworking machines, such as band-saws, lathes, planers and routers. Allows for any hollow spaces which may be required in the casting by providing core boxes in which sand cores are made. Fits and fastens parts together to form pattern or section, using fastening materials such as glue, nails, dowels and screws. Trims, smooths and shapes surfaces, using woodworking hand tools. Assembles sections and verifies conformity with pattern dimensions to specifications, using templates, straight-edges, callipers and

protractors. Repairs or rebuilds worn or broken patterns. Finishes patterns by applying shellac, lacquer, paint, or other material.

May use various colours to indicate different parts, such as core prints or loose pieces or stop-offs etc. May specialise in making automotive or engineering patterns and be designated accordingly, e.g.

- Patternmaker (Automotive)
- Patternmaker (Engineering)

Job Content Factors	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RIE	RQ: D2 V1
<i>Materials</i>	
SM: D2 I2 T1	EQ: P1 S1 M1
<i>Functions</i>	
MA: I2 A1 P2 D2 R2 M2 L2	
PA: P1 U1 C2 S2 W1 E3	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1 C09	TC: A1 I2 R2
SS: 5	SC: 5 (vy)
LMS: 1500-2000(0 %SE)	ASIC: 31,32,33

### 6005 MOULDING AND COREMAKING MACHINE OPERATORS

This unit group covers occupations concerned with operating machines to produce sand moulds for the production of metal castings of various shapes and sizes.

**Entry Requirements** 6 months' experience.

**Activities include** setting up and operating machine which consolidates sand to form mould; using hand or pneumatic tools to pack sand around pattern contours.

#### 6005-A MACHINE MOULDER

Operates machines to form sand moulds used in production of metal castings.

Attaches flask and pattern to machine, sifts sand over pattern and fills flask with sand using shovel. Packs sand around pattern contours, using hand tool or pneumatic hammer. Starts machine which consolidates sand to form mould. Cleans pattern during cycle using air hose. Inverts mould and withdraws pattern or operates controls of machine to lift mould from pattern. Cleans cavity of mould using air hose. Coats mould with refractory paint as necessary. Repeats process for other half of pattern.

May repair defects such as cracks and broken edges using hand tools. May insert cores into moulds.

#### Job Content Factors

##### Workers

FP: GE NFR

IP: T2-3m E6m

HC: R

RQ: D2 V2

##### Materials

SM: T1

EQ: S2 M1

##### Functions

MA: D2 R3 M3 L3

PA: U2 H2 W1 E3

SA: S2 L2

##### Context

EC: L1 C03,09,01

SS: 4

TC: A1 I1 R1

SC: 4 (vy)

LMS: 3000-3500(0 %SE)

ASIC: 29,31,32,33

### 6006 METAL CASTING NON-TRADE OCCUPATIONS

This unit group covers occupations concerned with pouring molten metal into moulds to produce metal castings or operating casting machines to pour molten metal into moulds.

**Entry Requirements** 6 months' experience in a hot metal casting or related environment. A high level of responsibility is inherent in these occupations due to safety factors associated with the handling of molten metal.

**Activities include** setting up and preheating casting equipment; examining moulds to ensure they are lubricated or coated with refractory solution; observing level of molten metal in moulds for overflow.

#### 6006-A CASTING MACHINE OPERATOR

Operates casting machine to pour molten metal into moulds or die to form ingots, slabs, bars, rods, billets or tubes by performing any combination of the following duties.

Positions and locks casting table and sets up and positions basin and launders, fits dip tubes and positions floats. Preheats gas burners and other necessary equipment. Lubricates moulds to prevent metal from sticking. Selects appropriate computer program and sets control panel for casting speed and cooling conditions by regulating water flow to produce castings of uniform crystalline structure. Operates control panel to start furnace tilt, regulating tilt speed. When metal conditions are at an optimum, operates 'cast start' button. Monitors furnace and basin temperatures from digital readouts during cast. Observes level of metal in moulds for overflows. Uses spoon to take a sample of molten metal for

control analysis during cast to determine that production is on grade. Skims slag from surface of cast metal. Observes alarm signals and responds according to standard practices.

#### Job Content Factors

##### Workers

FP: GE NFR

IP: T4-6m E6m

HC: R

RQ: D2 V2

##### Materials

SM: T1

EQ: P1 S2 M1 K2

##### Functions

MA: A2 D2 R3 M3 L3

PA: P2 U1 C2 H2 W1 E3

SA: S2 L2

##### Context

EC: L1 C01,09,12

SS: 3

TC: A1 I1 R1

SC: 5 (7 y)

LMS: NA (0 %SE)

ASIC: 29,31,32

**6006-B      LADLEMAN/WOMAN (FERROUS;  
NON-FERROUS METALS)  
Metal Pourer; Teemer (Iron and Steel)**

Pours molten metal from ladle into moulds to form castings or ingots.

Preheats ladle using torches. Examines moulds to ensure they are clean and coated with refractory solution and checks that stoppers are correctly set in hot metal ladles prior to tapping of furnace. Checks that number and type of moulds are correctly prepared and positioned. Signals crane driver to position pouring nozzle of ladle over first mould. Operates hydraulic equipment to release ladle stopper and allow molten metal to flow into mould to specified height. Operates lever to replace stopper when mould is filled. Repeats process for other moulds. Skims slag off molten metal or signals crane driver to tilt ladle to dump slag. Replaces defective stoppers and nozzles using hand tools.

May direct workers to shovel additives into ladle or mould to obtain specific type of casting or ingot. May clean and repair ladles. May produce castings or ingots by the method of uphill teeming (i.e. pours metal into central funnel or trumpet which then fills surrounding moulds from the base through radiating refractory pipes).

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T12m E6m
HC: R	RQ: D2 V2
<i>Materials</i>	
SM: T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: P2 U2 C2 H1 W1 E4	SA: S2 L2
<i>Context</i>	
EC: L1 C01,09,12	TC: A1 I1 R1
SS: 3	SC: 5 (7 y)
LMS: NA (0 %SE)	ASIC: 29,31

**6007    APPRENTICE FOUNDRY OCCUPATIONS**

This unit group covers apprentice occupations in the various metal processing trades.

**Entry Requirements** persons in these occupations will normally have satisfied relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** those described under Master Title APPRENTICE.

**6007-A      APPRENTICE JOBBING  
MOULDER-COREMAKER**

Receives instruction and training in the trade of jobbing moulding-coremaking.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP:
HC: R1	RQ: D2 V2
<i>Materials</i>	
SM: D2 T1	EQ: P2 S2 M1 K2
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: P2 U1 C2 H1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C01,09,06	TC: A1 I1 R2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 29,31,32

**6007-B      APPRENTICE PATTERNMAKER,  
METAL CASTING**

Receives instruction and training in the trade of metal casting patternmaking.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP:
HC: R1A	RQ: D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: P1 S2 M2
<i>Functions</i>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 U2 S2 W1 E2	SA: S1 L2
<i>Context</i>	
EC: L1 C09,06	TC: A1
SS: 1	SC: 3 ( 3y)
LMS: NA (0 %SE)	ASIC: Many

**MINOR GROUP 601**  
**METAL FORMING AND TREATING OCCUPATIONS**

Metal Forming and Treating Occupations are classified in the following unit groups.

- 6010 Supervisors/Foremen/women, Metal Forming and Treating Occupations
- 6011 Metal Rolling Mill Operators
- 6012 Metal Rolling Mill Assistants
- 6013 Metal Extruding and Drawing Machine Operators
- 6014 Metal Heat Treating Occupations
- 6015 Metal Finishing Trade Occupations
- 6016 Metal Finishing Occupations, Non-Trade
- 6017 Apprentice Metal Finishing Occupations

**6010 SUPERVISORS/FOREMEN/WOMEN, METAL FORMING AND TREATING OCCUPATIONS**

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in forming and treating metal to make semi-finished or finished metal stock and products.

**Entry Requirements** Year 10 plus substantial industrial experience and post-secondary qualifications where necessary.

**Activities include** those described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**6010-A FOREMAN/WOMAN, METAL ROLLING MILL OCCUPATIONS**

Supervises and co-ordinates activities of workers engaged in heating and rolling blooms, billets or slabs into plates, bars or skelps.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y PSP	IP: T2-3y E6-10y
or FP: GE11y PSP2y(PPC)	IP: E2y
HC: RIE	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S2 M2 K2
<i>Functions</i>	
MA: A2 P1 D2 R3 M2 L2	
PA: P2 U2 C2 S2 W2 E3	SA: S2 L2 B1 R3-2

<i>Context</i>	
EC: L1 C09,04,01	TC: A1 I1 T2
SS: 5	SC: 8 (3 y)
LMS: NA (0 %SE)	ASIC: 29,31

**6010-B FOREMAN/WOMAN, METAL EXTRUDING AND DRAWING OCCUPATIONS**

Supervises and co-ordinates activities of metal forming workers engaged in extruding or drawing ferrous or non-ferrous metal into primary shapes such as wire, tubes and bars from billets, blooms or slabs, reducing diameter of these shapes into specific dimensions and then modifying or reducing these shapes by drawing through a die to specific dimensions.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP	IP: T2y E6-10y
or FP: GE11y PSP2y(PPC)	IP: E2y
HC: REC	RQ: D1 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S2 N2 M2
<b>Functions</b>	
MA: A2 P1 D2 R3 M3 L3	
PA: U2 S2 W2 E4	SA: S2 L2 B1 R3-4
<b>Context</b>	
EC: L1 C09,01	TC: A1 I1 T2
SS: 5	SC: 8 (3 y)
LMS: NA (0 %SE)	ASIC: 29,31

**6010-C FOREMAN/WOMAN, METAL HEAT TREATING OCCUPATIONS**

Supervises and co-ordinates activities of workers engaged in altering the physical properties of metal objects, by heating, cooling or chemically treating.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise one or more heat treating processes such as annealing, hardening, nitriding, carburising, aluminium heat treating, salt bath hardening, tempering or quenching. Should be experienced with at least one of the following items of equipment: salt baths, atmosphere furnaces, vacuum furnaces.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP2y(PPC)	IP: T1-2y E3y
HC: REC	RQ: D1 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S2 N2 M2

**Functions**

MA: A2 P1 D2 R2 M2 L2	
PA: U2 S2 W2 E3	SA: S2 L2 B1 R2-3
<b>Context</b>	
EC: L1 C01,02,06	TC: A1 I1 T2
SS: 5	SC: 8 (3 y)
LMS: NA (0 %SE)	ASIC: 29,31,32

**6010-D FOREMAN/WOMAN, METAL SURFACE FINISHING OCCUPATIONS**

Supervises and co-ordinates activities of workers engaged in applying protective, decorative or other coating to metal objects.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise one or more metal finishing processes such as electroplating, dipping, picking, spraying, anodising, galvanising or tinning and be designated accordingly, e.g.

Foreman/woman, Electroplating/Anodising  
Foreman/woman, Galvanising  
Foreman/woman, Metal Spraying

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP: T2-3m E4-6y
or FP: GE10y	IP: T2-3y E6-10y
HC: RIE	RQ: D1 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S2 M2
<b>Functions</b>	
MA: I2 A2 P1 D2 R2 M2 L2	
PA: P2 U2 S2 W2 E2	SA: S2 L2 B1 R3-4
<b>Context</b>	
EC: L1 C10,08,02	TC: A1 I1 T2
SS: 5	SC: 8 (3 y)
LMS: NA (0 %SE)	ASIC: 31,32,33

**6011 METAL ROLLING MILL OPERATORS**

This unit group covers occupations concerned with operating metal rolling mills which shape, reduce the cross-sectional area, and elongate metal pieces by passing them between smooth-surfaced or grooved rotating rolls which exert a continuous compressive force.

**Entry Requirements** 2-4 years' experience.

**Activities include** setting rolling mill controls to roll metal stock to specified gauge, size and shape; observing any irregularities during the rolling process and making adjustments to correct same; directing mill crew in set up, roll changes, adjustment and maintenance.

**6011-A ROLLING ATTENDANT, IRON AND STEEL****Operator, Main Pulpit**

Operating either manually or by automatic systems, controls rolling operations of rolling mill, which reduces steel billets, ingots or slabs into products of specified size, shape and gauge.

Sets selector switches of console for automatic operation of electronic equipment, roll stands and auxiliary equipment. Moves console controls to advance steel from approach table to mill entry table and through complete rolling cycle automatically to reduce steel products to specified size, shape and gauge. Observes, from control pulpit, rolling irregularities in ingot and notifies other workers through intercom system

to shear defective parts. Observes rolling operations, dial and coloured light indicators, and other gauges, and manipulates control levers and switches to adjust roll draught (space between rolls), alignment or mill speed, to correct rolling and tolerance deviations or drift. Stops automated mill and changes to manual control operations on breakdown or failure of electronic or mill equipment. Assists or directs mill crew in set-up, roll changes, maintenance and adjustment of mill or auxiliary equipment.

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T12-18m E4y
HC: RIE	RQ: D1 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P1 S1 M1 K2

<i>Functions</i>	
MA: P2 D2 R2 M2 L2	
PA: P1 U2 C1 S2 W1 E3	SA: S2 L2 B2 R3-4
<i>Context</i>	
EC: L1 C09,04,01	TC: A1 I1 R2
SS: 3	SC: 5 (7 y)
LMS: NA (0 %SE)	ASIC: 29,31

**6011-B      ROLLING MILL OPERATOR (FERROUS;  
NON-FERROUS METALS)  
Roller**

Operates or directs the operation of a rolling mill to roll metal slabs, blooms, billets, strip or sheet into plate, sections, sheet or foil using knowledge of metal properties and rolling practices.

From rolling schedule, determines rolling sequence and calculates required space (draught) between rolls for each stand, rolls' tension, rolling speed, number of passes etc; sets or directs the setting of rolls' draught, speed and tension, and width of guides. Hot rolling: signals soaking pit workers for ingots as required and supervises positioning on mill entry table. Cold rolling: supervises loading of coil strip on uncoiling mechanism, ensuring strip is correctly threaded through mill and attached to re-coil mandrel at delivery end. Gives signal for rolling to start and supervises entire process;

adjusts or directs adjustment to settings during rolling as required and takes corrective action if irregularities occur; checks that gauge and finish of rolled metal conform to specifications.

May direct other workers in cleaning and changing rolls, loading and unloading operations. May be designated according to type of mill operated, e.g.

- |                     |                        |
|---------------------|------------------------|
| Roller, Billet Mill | Roller, Bloom Mill     |
| Roller, Cold Mill   | Roller, Finishing Mill |
| Roller, Hot Mill    | Roller, Roughing Mill  |
| Roller, Slab Mill   |                        |

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T12m E2y
HC: RIE	RQ: D2 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S1 M1 K2
<i>Functions</i>	
MA: P2 D2 R3 M2 L2	
PA: P1 U2 C1 W1 E2	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1 C09,04,01	TC: A1 I1 R2
SS: 3	SC: 5 (7 y)
LMS: NA (0 %SE)	ASIC: 29,31

**6012 METAL ROLLING MILL ASSISTANTS**

This unit group covers occupations concerned with tending metal rolling mills to assist in rolling operations by guiding and turning metal on conveyors or tables to, from and through rolls of the mill.

**Entry Requirements** no formal requirements.

**Activities include** operating hand or automatic controls to manoeuvre metal stock on mill table; operating shears to cut metal to length; operating mechanism to coil and weigh finished product; and making adjustments to equipment as directed.

**6012-A      ROLLING MILL ASSISTANT  
Assistant Roller; Roll Hand**

Assists, under the direction of the roller, in the operation of a rolling mill to roll metal into slabs, blooms, billets, bars, rods, strip, sheet or plated sections, or to reduce metal strip or sheet to final gauge, or to give correct temper and finish to rolled strip or sheet after annealing, by performing a combination of the following tasks associated with the process either of hot rolling or cold rolling.

Operates hand or automatic controls to set space (draught) between rolls, speed and tension of rolls and width of guides, as directed by roller. Makes adjustments during rolling as required. When performing hot rolling duties: guides metal to and from each set of rolls with tongs or automatic handling device. Operates shears at various stages of rolling to crop uneven ends, to cut up metal if buckling occurs or to cut metal into lengths. Operates controls to push rolled billets or bars off roller table to cooling beds and from cooling beds to bins. Operates mechanism to coil and weigh rolled strip and records weight of coil. Observes metal during rolling and notifies roller of any irregularities, and rectifies the problem. When performing cold rolling duties: loads coil of strip or sheet onto uncoiling mechanism and positions coil for rolling. Feeds end of strip through mill by hand and attaches end of

strip round re-coiling mechanism at delivery end of mill. Observes strip or sheet during rolling and notifies roller of any irregularities. Stops mill as directed by roller and cuts faulty pieces from strip using shears. Binds finished coil with steel bands. Transfers finished coil from coiling mechanism to scales. Weighs coils and records weight.

May be designated according to function performed, e.g.

- |                      |                 |
|----------------------|-----------------|
| Bundler              | Coil Operator   |
| Cooling Bed Operator | Shears Operator |

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T3-12m
HC: RI	RQ: D2 V2
<i>Materials</i>	
SM: D2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: D2 R3 M2 L3	
PA: P1 U2 C1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C09,04,01	TC: A1 I1 R2
SS: 3	SC: 4 (7 y)
LMS: NA (0 %SE)	ASIC: 29,31

### 6013 METAL EXTRUDING AND DRAWING MACHINE OPERATORS

This unit group covers occupations concerned with operating, tending, feeding or offbearing from machines that draw and extrude, metal into primary shapes such as wire, pipe, tube or various hollow or solid sections; and applying insulation or coating to wire or tube, when it is an integral part of the primary process.

**Entry Requirements** 3 months' experience.

**Activities include** setting up and operating machines to extrude draw or coat metal products.

#### 6013-A EXTRUSION PRESS OPERATOR, METAL

Operates extrusion press to form products such as rods, bars, seamless tubing, wire and structural shapes by extruding hot metal billets through dies.

Sets up press with appropriate die(s). Loads preheated billets into press container or loads supply of cold billets into feed conveyor of press furnace, which ejects heated billet into press container. Sets furnace controls to heat billet to specified temperature. Operates controls to bring hydraulic ram into contact with the heated metal in the container, forcing it through the die(s). Regulates rate of extrusion to prevent metal rupture and adherence of metal to container walls. Starts press run out table and butt shears to guide extrusion from the press and to trim flash. Pulls extrusion along conveyor to racking table or runs wire over guide pulleys to take up reel on winder. Sprays or swabs die with lubricant. Removes any metal remaining in container after extrusion. Records data such as number of billets used, extrusion defects, items processed and downtime.

##### Job Content Factors

###### Workers

FP: GE NFR IP: T6-12m E3m  
HC: RC RQ: D1 V1

###### Materials

SM: D2 T1 EQ: S1 N2 M1

###### Functions

MA: A2 D3 R4 M3 L3  
PA: U1 C1 H2 W1 E4 SA: S2 L2

###### Context

EC: L1 C09,01 TC: A1 I1 R1  
SS: 3 SC: 5 (7 y)

LMS: NA (0 %SE)

ASIC: 29,31

#### 6013-B WIRE DRAWER Wire Drawing Machine Operator

Sets up and operates a machine to reduce the diameter of metal wire or rod by drawing through one or a series of graduated dies.

Loads coil onto feed magazine using a hoist. Tapers end of coil on pointing machine. Feeds pointed end of wire/rod through die, straightening rolls and drawing blocks either manually or by operating machine controls. Attaches end to winding reel at end of machine. Operates controls to start machine and ensures that drawing proceeds correctly. Inspects and measures drawn wire to verify dimensions and tensile strength and electrical resistance using micrometers, wire gauges and resistance testers. Removes reel of drawn wire from machine on completion of drawing. Adjusts or changes dies or replaces worn dies using hand tools. Completes production process control chart.

May join end of one coil to start of another and repair wire breaks by using a wire welding machine to maintain continuous drawing. May operate more than one machine.

##### Job Content Factors

###### Workers

FP: GE NFR IP: T4-6m E3m  
HC: R RQ: V2

###### Materials

SM: T1 EQ: S1 M1

###### Functions

MA: D3 R4 M3 L3  
PA: U1 C2 H1 W1 E3 SA: S2 L2

###### Context

EC: L1 C09 TC: A1 I1 R1  
SS: 3 SC: 5 (7 y)

LMS: NA (0 %SE)

ASIC: 29,31

#### 6013-C SHEATHING EXTRUDER

Operates extrusion press to encase electric wire, cord or cable in rubber or plastic.

Bolts specified dies, guides and guide holders in extrusion head of press, using hand tools. Clamps roll of rubber on spindle of machine and threads strip into hopper-feeder or fills hopper with plastic chips. Sets temperature control of press according to type of material to be extruded. Loads spool of wire on reel of machine spindle or payout stand, using hoist. Threads wire or cable through machine and around take-up reel or threads cable through die and cooling chamber, and fastens end to take up reel. Starts machine and adjusts controls to regulate speed of wire travel, pressure of hydraulic ram, temperature of extrusion die, flow of metal, and pressure of water spray in cooling chamber to ensure sheath of uniform thickness.

May be designated according to machine operated or material sheathed, e.g.

Continuous Vulcanising Machine Operator  
Wire Sheather

##### Job Content Factors

###### Workers

FP: GE NFR IP: T4-6m E3m  
HC: R RQ: D2 V2

###### Materials

SM: T1 EQ: S1 M1

###### Functions

MA: D3 R4 M3 L3  
PA: P1 U2 C1 H2 W1 E3 SA: S2 L2

###### Context

EC: L1 C09 TC: A1 I1 R2  
SS: 3 SC: 5 (7 y)

LMS: NA (0 %SE)

ASIC: 29,31

### 6014 METAL HEAT TREATING OCCUPATIONS

This unit group covers occupations concerned with altering the physical properties of metals or metal objects by heating, cooling or chemically treating, to relieve stresses, restore ductility, reduce brittleness, harden throughout and harden outer surfaces.

**Entry Requirements** in some cases a para-professional certificate and/or 1-2 years' experience.

**Activities include** controlling heat treating furnaces and quenching equipment; loading and unloading furnaces; and maintaining production records of materials treated.

#### 6014-A HEAT TREATMENT OPERATOR, GENERAL Heat Treater

Controls one or more heat treating furnaces or quenching equipment to alter physical and chemical properties of different types of metal objects or parts by methods of controlled heating and cooling, such as hardening, tempering, annealing and case hardening.

Operates furnaces such as salt, atmosphere controlled, vacuum, induction, gas and electric furnaces, to heat treat metal objects, using most or all of the following methods as required. Restores ductility by relieving internal stresses, softens and refines grain structure in metals (see 6014-B ANNEALER). Hardens metal objects throughout by heating and quenching methods (see 6014-C HARDENER). Hardens surface of metal object by carbonising or immersing in chemicals during heat process and then cooling in air or quenching (see 6014-E CASE HARDENER). Imparts toughness and relieves stresses caused in the hardening process by reheating hardened metal and by controlled quenching sequence (see 6014-D TEMPERER). Adjusts furnace controls, observing pyrometer, to bring metal to specified temperature. Places items to be heat treated in racks or baskets and loads them into furnace. Observes gauges and checks controls for correct functioning. Removes items after prescribed time and quenches in water, oil, brine or other bath, or allows to air-cool.

May maintain quenching media to specifications. May test hardness of object treated as specified. May direct other workers in heat treating functions. May use bath of molten salt in place of furnaces for certain types of steel and certain functions. May determine temperature and time of heating cycle and type and temperature of quenching medium to attain specified hardness, toughness and ductility of metal, using standard heat treatment charts and applying knowledge of heat treating methods, equipment and metal properties.

##### Job Content Factors

###### Workers

FP: GE NFR	IP: T6-12m E1-2y
or FP: GE10-11y PSP2y(PPC)	IP: T6m
HC: REC	RQ: D1 V2

###### Materials

SM: D2 P2 T1	EQ: P2 S2 N1 M2
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###### Functions

MA: A2 P2 D2 R4 M3 L3	
PA: U1 C2 H1 W1 E3	SA: S2 L2 B2 R3-4

###### Context

EC: L1 C01,02,06	TC: A1 I1 R2
SS: 5	SC: 8 ( 7y)

LMS: NA (0 %SE)

ASIC: 31

#### 6014-B ANNEALER Heater (Annealing)

Controls furnace to heat metal objects and cools them at a predetermined rate to relieve internal stresses, restore ductility and refine grain structure.

Places or directs placement of objects in furnace. Sets control to regulate gas and air flow to furnaces and ignites burners to raise furnace temperature gradually to desired level. Checks furnace temperature using pyrometer and adjusts controls as necessary to maintain temperature for specified length of time. Regulates controls to allow objects to cool slowly in furnace, or removes or directs removal of objects from furnace and allows them to cool slowly in air. Maintains production record of materials treated.

May use specific procedure for cooling when annealing (or normalising) non-ferrous metals. May use baths of molten salt in place of furnaces for certain types of steel and certain functions.

##### Job Content Factors

###### Workers

FP: GE NFR	IP: T6-12m
HC: RC	RQ: D2 V2

###### Materials

SM: D2 T1	EQ: P1 M1
-----------	-----------

###### Functions

MA: A2 P2 D3 R4 M3 L3	
PA: U1 H2 W1 E3	SA: S2 L2 B2 R3-4

###### Context

EC: L1 C01,02	TC: A1 I1 R2
SS: 4	SC: 6 ( vy)

LMS: 500-700 (0 %SE)

ASIC: 31

#### 6014-C HARDENER Heater (Hardening); Heat Treater, Tool Furnace

Hardens metal objects throughout by heating in a furnace and cooling in air or quenching.

Loads furnace. Controls furnace to harden metal objects such as axeheds, knife blades, springs, tools and dies. Heats the objects to specified temperature and, at completion of specified heating period, quenches them in oil, water, brine or blast of cold air, depending on the limit of hardness of the metal, to attain required hardness throughout.

May test hardness of metal objects by means of special instruments such as Rockwell machine. May use baths of molten salt in place of furnaces for certain types of steel and certain functions.

**Job Content Factors****Workers**

FP: GE NFR	IP: T6-12m
HC: RC	RQ: D2 V2

**Materials**

SM: D2 T1	EQ: P1 S2 M1
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**Functions**

MA: A2 P2 D3 R4 M3 L3	
PA: U1 H1 W1 E3	SA: S2 L2

**Context**

EC: L1 C01,02,06	TC: A1 I1 R2
SS: 4	SC: 6 (7y)

LMS: NA (0 %SE)

ASIC: 31

**6014-D TEMPERER**

Reheats hardened metal objects in furnace and quenches them to relieve stresses caused in hardening process and to impart toughness.

Loads previously hardened and quenched metal articles into furnace. Adjusts furnace temperature, observing pyrometer, to heat metal to specified temperature. Adjusts controls as necessary to maintain temperature for specified length of time. Removes articles as required and tempers them by controlled quenching using water, oil, brine, molten lead or blast of cold air to remove previously imparted quenching strains and brittleness and to impart toughness to metal.

May use baths of molten salt in place of furnaces for certain types of steel and certain functions.

**Job Content Factors****Workers**

FP: GE NFR	IP: T6-12m
HC: RC	RQ: D2 V2

**Materials**

SM: D2 T1	EQ: P1 S2 M1
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**Functions**

MA: A2 P2 D3 R4 M3 L3	
PA: U1 H1 W1 E3	SA: S2 L2

**Context**

EC: L1 C01,02,06	TC: A1 I1 R2
SS: 4	SC: 6 (7y)

LMS: NA (0 %SE)

ASIC: 31

**6014-E CASE HARDENER**

Imparts hard skin and tough, ductile core to steel objects by treating them with chemicals, heating and quenching or cooling them by one of the following methods.

Prepares bath of potassium or sodium cyanide in pot furnace. Immerses steel objects in hot cyanide bath for specific time at predetermined temperature. Quenches in water, brine, oil or other medium (Cyaniding). Heats steel objects in metal boxes packed with carbonaceous material such as coke, coal, bone or charcoal for specified time at predetermined temperature.

Quenches in water, brine, oil or other medium (Carburising). Heats steel objects in ammonia gas in a retort. Sets controls for required temperature and period of heating. Regulates flow of ammonia gas in retort. Allows articles to cool slowly (Nitriding).

May use baths of molten salt in place of furnaces for certain types of steel and certain functions.

May be designated according to process used, e.g.

Carburiser	Cyanider
Nitrider	

**Job Content Factors****Workers**

FP: GE NFR	IP: T6-12m
HC: RC	RQ: D2 V2

**Materials**

SM: D2 T1	EQ: S1 M1
-----------	-----------

**Functions**

MA: P2 D3 R4 M3 L3	
PA: U1 H1 W1 E3	SA: S2 L2

**Context**

EC: L1 C01,02,06	TC: A1 I1 R2
SS: 4	SC: 6 (7 y)

LMS: NA (0 %SE)

ASIC: 31

**6014-F SOAKING PIT FURNACE OPERATOR**

Operates furnace or soaking pit that treats ferrous or non-ferrous metals to specified temperature for rolling, processing or stress relieving.

Sets furnace or soaking pit controls to regulate temperature and heating times between specified limits. Loads or directs loading of material into furnace by starting conveyors and opening furnace doors to admit material, or signals crane operator to uncover soaking pits and lower material into them. Observes thermal measuring instruments and charts to determine necessity for adjusting furnace temperature or timing cycle, maintaining temperature at required level. On completion of heating, removes or directs removal of material from furnace or pit. Records time and production data for control purposes.

**Job Content Factors****Workers**

FP: GE NFR	IP: T6-12m E1-2y
HC: RCE	RQ: D2 V2

**Materials**

SM: D2 P2 T1	EQ: P2 S1 M1
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**Functions**

MA: A2 P2 D2 R3 M3 L3	
PA: P1 U1 C1 W1 E3	SA: S2 L2 B2 R4

**Context**

EC: L1 C01,02	TC: A1 I1 R2
SS: 4	SC: 6 (7 y)

LMS: NA (0 %SE)

ASIC: 29,31

**6015 METAL FINISHING TRADE OCCUPATIONS**

This unit group covers occupations concerned with coating metal parts and articles to improve resistance to corrosion and abrasion, to impart desirable electrical or magnetic properties or as an essential part of the manufacturing process. The work will frequently require special procedures, a high degree of quality control and usually will be manual in operation.

**Entry Requirements** a trade qualification or, in some cases, a basic vocational certificate plus 3 years' experience.

**Activities include** employing plating processes to coat metal articles; producing or reproducing an article by depositing metal electrolytically onto non-metallic surface; maintaining plating solutions; masking areas not to be coated; working to military or manufacturing instructions and/or specifications; brush plating to repair defects; polishing and buffing sheet and other metal.

#### 6015-A ELECTROPLATER, FIRST CLASS

Employs plating processes which are usually manual, to coat metal articles or parts, either individually or in batches with non-ferrous metals to improve resistance to corrosion and abrasion, to impart desirable electrical or magnetic properties or for some other essential part of the manufacturing process.

Prepares and maintains plating solutions. Cleans parts or articles with cleaning solutions. Uses blasting cabinet for surface preparation and descaling of jobs that it would be detrimental to clean with either acid or alkali. Masks areas not to be plated with wax, lacquers or resistant adhesive tape. Places parts in fixture, jig or rack and immerses them in plating solution, or uses special procedures such as selective brush plating. Sets and adjusts controls to pass required rate of electric current between anode and cathode according to thickness of plating required. Examines articles or parts at intervals to check progress of plating and closely monitor quality of finish. Checks instruments and adjusts current flow as necessary. Adds water or other materials according to specifications to maintain mixture and level of cleaning, rinsing and plating solutions. Removes parts or articles at completion of plating and rinses and dries them by hand or machine. Removes any masking substance from article.

May adhere to military or manufacturing specifications and work on such items as telecommunications components, printed circuitry, aircraft engine components and gravure printing cylinders. May undertake high level electroforming and anodising operations.

##### Job Content Factors

###### Workers

FP: GE10y PSP4y(T)	IP:
or FP: GE10y PSP1y(B)	IP: E3y
HC: RIE	RQ: U2 D1 V1

###### Materials

SM: D2 P2 T1	EQ: P1 S1 M2
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###### Functions

MA: I2 A2 P2 D2 R3 M3 L2	
PA: P2 U1 H1 W1 E2	SA: S2 L2 B2 R4

###### Context

EC: L1 C10,08,02	TC: A1 I1 R2
SS: 5	SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 31,32,33

#### 6015-B ELECTROFORMER

Produces or reproduces an article by depositing metal electrolytically onto a non-metallic (non-conducting) surface.

Examines master for flaws. Measures and mixes quantities of silver solution and prepares required electrolytic solution according to laboratory specifications. Positions objects such as filters, dies, moulds and personal mementoes on work table or positions lacquer discs for phonograph record masters on spindle in automatic spraying machine. Sprays, brushes or immerses objects in cleaning and other solvents to prepare them for coating. Rinses objects in clean water. Applies electrically conductive silver coating solution on objects. Hangs master in tank of electrolytic solution of required coating. Sets and adjusts controls to regulate rate of deposition and switches on current. Removes articles after specified time and checks that deposit is of required thickness using measuring instruments. Washes articles in clean, hot water and dries them by hand or machine. Removes forming object.

May polish surface of formed metal article using hand polishing machine. May be designated according to method and conductive agent used or by article worked on, e.g.

Electroformer, Phonograph Record Masters  
Silver Sprayer

##### Job Content Factors

###### Workers

FP: GE10y PSP4y(T)	IP:
HC: RA	RQ: D1 V1

###### Materials

SM: D2 T1	EQ: S1 M1
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###### Functions

MA: A2 D3 R4 M3 L3	
PA: U1 C2 H1 W1 E3	SA: S2 L2

###### Context

EC: L1 C10,08,02	TC: A1 I1 R2
SS: 3	SC: 6 (7 y)

LMS: NA (0 %SE)

ASIC: 31,33,34

#### 6015-C METAL POLISHER, FIRST CLASS Metal Polisher and Buffer; Metal Polishing and Buffing Machine Operator

Polishes and buffs sheet and other metal by hand and machine.

Performs two or more polishing processes such as emery buffing, grease mopping, burnishing and scratch brushing to impart a smooth reflective or other specified finish to surfaces of parts or articles by hand/or machine. Selects appropriate continuous abrasive band or polishing head, for example, wire brush, wheel or bob of felt, leather or fibre, or polishing mop of calico, cotton or chamois. Positions and attaches polishing head to machine. Sets controls to regulate speed, and angle of polishing head and where appropriate feed rate of lubricant. Dresses polishing head as required with abrasive or finishing material such as emery, grease or rouge, or applies buffing compound to surface to be polished. Operates controls to rotate polishing head. Holds surface against polishing head or applies polishing head and hand tools to rotating or fixed workpiece, adjusting point and angle of contact as necessary, until desired finish is obtained. Removes remaining imperfections or polishes less accessible recessed areas by hand using abrasive material, such as emery paper, and buffing compound.

May polish aircraft frame components and be designated accordingly, e.g.

Airframe Polisher

##### Job Content Factors

###### Workers

FP: GE10y PSP4y(T)	IP:
HC: RAE	RQ: D1 V1

###### Materials

SM: D2 T1	EQ: S1 M1
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###### Functions

MA: D2 R4 L3	
PA: P2 U1 C1 H2 W1 E3	SA: S2 L2 B2 R4

###### Context

EC: L1 C09,06	TC: A1 I2 R1
SS: 3	SC: 6 (7 y)

LMS: NA (0 %SE)

ASIC: 31,32,33,34

## 6016 METAL FINISHING OCCUPATIONS, NON-TRADE

This unit group covers occupations concerned mainly with operating machines or equipment to treat the surface of metal parts and articles to improve resistance to corrosion and abrasion, for decorative purposes, to impart electrical or magnetic properties or to achieve a desirable polished finish. Processes used may be electrolytic, such as electroplating, or non-electrolytic, such as metal spraying and buffing.

**Entry Requirements** Year 9-10.

**Activities include** operating plating equipment; observing dials and meters for temperature and current flow; preparing surfaces to be treated, sprayed or polished; and operating spraying and polishing machines and equipment.

### 6016-A ELECTROPLATER, SECOND CLASS Production Plater

Tends plating equipment to coat metal objects electrolytically with copper, nickel, chromium or other non-ferrous metals. Immerses components in cleaning solution. Places components in fixture, jig, rack or barrel and immerses them in plating solution. Suspends piece of plating metal in solution to act as anode. Sets and adjusts controls and switches on electric current or starts rotation of board. Examines components at intervals to check progress of plating. Observes meters and adjusts current flow as necessary to maintain specified current. Removes plated components and immerses in rinsing tank. Examines components for plating defects and dries them by hand or machine.

May replace anodes and cathodes of plating equipment. May be designated according to plating method or metal used, e.g.

Barrel Plater                      Nickel Plater  
Silver Plater (Metal Finishing/Production Plating)

#### Job Content Factors

<i>Workers</i>	
FP: GE9-10y	IP: T4-6m
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: T1	EQ: M1
<i>Functions</i>	
MA: A2 D3 R4 M3 L3	
PA: U1 C2 H1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C10,08,02	TC: A1 I1 R1
SS: 4	SC: 6 (7 y)

LMS: NA (0 %SE)

ASIC: 31,32,33,34

### 6016-B METAL SPRAYER Plasma Sprayer; Thermal Sprayer

Sets and operates equipment to spray molten metal or ceramics onto metal products to provide protective or decorative coatings or to build up worn or damaged surfaces.

Prepares surfaces for coating by grit blasting and, where necessary, applies bond coating to help coating adhere. Selects appropriate nozzle and fits to spray gun. Inserts powder or wire of required coating material into gun and sets equipment gauges for gas flow and current control. Adjusts flow of gases and ignites gas/air mixture in gun to melt metal powder or

wire. Directs spray of coating material onto article ensuring coating is applied evenly. Measures thickness of coating with measuring instruments.

May observe control panel to monitor process.

#### Job Content Factors

<i>Workers</i>	
FP: GE9-10y	IP: T3-6m
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C2 H1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C01,09,06	TC: A1 I1 R1
SS: 3	SC: 6 (7 y)

LMS: NA (0 %SE)

ASIC: 31,32,33

### 6016-C METAL POLISHER, SECOND CLASS

Carries out a single polishing process to impart a smooth reflective surface or other specified finish to surfaces of parts or articles by manipulation against rotating polishing heads.

Performs basic tasks as described under 6015-C METAL POLISHER, FIRST CLASS but in relation to one polishing process, and may be designated accordingly,

Burnisher                      Emery Buffer  
Grease Mopper              Linisher  
Mirror Polisher (Cutlery)    Scratch Brusher

#### Job Content Factors

<i>Workers</i>	
FP: GE9-10y	IP: T2-4m
HC: RAE	RQ: D1 V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 M1
<i>Functions</i>	
MA: D2 R4 L3	
PA: P2 U1 C1 H2 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C09,06	TC: A1 I2 R1
SS: 3	SC: 6 (7 y)

LMS: NA (0 %SE)

ASIC: 31,33

6017 APPRENTICE METAL FINISHING OCCUPATIONS

This unit group covers apprentice occupations in the various metal finishing trades.

**Entry Requirements** persons in these occupations will normally have satisfied relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** those described under Master Title APPRENTICE.

6017-A APPRENTICE ELECTROPLATER

Receives instruction and training in the trade of electroplating.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

Job Content Factors

Workers

FP: GE10y	IP:
HC: RI	RQ: D1 V1

Materials

SM: D2 P2 T1	EQ: P2 S1 M2
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Functions

MA: D3 R3 M3 L3	
PA: P2 U1 H1 W1 E2	SA: S2 L2

Context

EC: L1 C10,08,02	TC: A1 I1 R2
SS: 1	SC: 3 (3 y)

LMS: NA (0 %SE)	ASIC: 31,32,33
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6017-B APPRENTICE METAL POLISHER

Receives instruction and training in the trade of metal polishing.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

Job Content Factors

Workers

FP: GE10y	IP:
HC: RI	RQ: D1 V1

Materials

SM: D2 P2 T1	EQ: S1 M2
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Functions

MA: D2 R4 L3	
PA: P2 U1 C1 H2 W1 E3	SA: S2 L2

Context

EC: L1 C09,06	TC: A1 I1 R2
SS: 1	SC: 3 (3y)

LMS: NA (0 %SE)	ASIC: 31,33
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MINOR GROUP 602  
METAL MACHINING OCCUPATIONS

Metal Machining Occupations are classified in the following unit groups.

- 6020 Supervisors/Foremen/women, Metal Machining Occupations
- 6021 Toolmakers
- 6022 Machinists, First Class
- 6023 Fitters
- 6024 Machinists, Second Class and Other Machine Setters
- 6025 Apprentice Metal Machining Occupations
- 6029 Other Metal Machining Occupations

6020 SUPERVISORS/FOREMEN/WOMEN, METAL MACHINING OCCUPATIONS

This unit group covers occupations concerned with metal machining and related activities.

**Entry Requirements** a trade qualification plus 3-5 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

6020-A SUPERVISOR/FOREMAN/WOMAN,  
TOOL ROOM

Supervises and co-ordinates activities of workers engaged in the fabrication of cutting, shaping and forming tools and other precision equipment for use in and in conjunction with machine tools and other production machinery.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

Job Content Factors

<i>Workers</i>	
FP: GE10-12y PSP4-5y(T)	IP: T1-2m E3-5y
HC: REI	RQ: U2 D1 V1
<i>Materials</i>	
SM: D2 I2 P2 T1	EQ: P2 S2 M2 K2
<i>Functions</i>	
MA: I2 A1 P1 D2 R2 M2 L2	
PA: P2 C2 S2 W2 E2	SA: S2 L2 I2 B1 R3-4
<i>Context</i>	
EC: L1 C09,04	TC: A1 I2 T2
SS: 7	SC: 9 (3 y)
LMS: NA (0 %SE)	ASIC: Many

6020-B SUPERVISOR/FOREMAN/WOMAN,  
MACHINE ROOM

Supervises and co-ordinates activities of workers engaged in the use of machine tools and machines to shape and form metal stock and castings, in the fitting and assembly of the parts so fabricated into certain types of products and in the maintaining and repairing of those products; receives and transmits information using computer based visual display units and decwriters.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

Job Content Factors

<i>Workers</i>	
FP: GE10-12y PSP4y(T)	IP: T1-2m E3-5y
HC: REI	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S2 M2 K2
<i>Functions</i>	
MA: A2 P1 D2 R2 M3 L2	
PA: P2 C2 S2 W2 E2	SA: S2 L2 B1 R3-4
<i>Context</i>	
EC: L1 C09,04,06	TC: A1 I1 T2
SS: 6	SC: 9 (3 y)
LMS: NA (0 %SE)	ASIC: Many

## 6021 TOOLMAKERS

This unit group covers occupations concerned with the design and fabrication of cutting, shaping and forming tools and other precision equipment for use in and in conjunction with machine tools and other production machinery.

**Entry Requirements** a trade qualification in toolmaking or in fitting and machining, specialising in toolmaking; in some cases, a post-trade qualification, possibly at certificate level, in related areas such as drafting technology or detail/design drafting, and 2-4 years' experience.

**Activities include** studying task requirements; determining production methods; applying toolmaking and other knowledge and skills to produce desired item, or a design of that item, either by operating machine tools to form workpiece or by the use of drafting equipment; test-operating item after production and modifying item or its design as necessary. Machine tools used include a number of precision machines and may include numerically controlled machine tools.

### 6021-A TOOL DESIGNER Detail Draftsman/woman (Tool Design)

Designs tools, dies, jigs, fixtures and other precision equipment to be fabricated by toolmakers for use in and in conjunction with machine tools and other production machinery.

Studies task requirements in the form either of job order from engineering staff or of prototype to be mass-produced, in order to formulate a practical design. Applies toolmaking and drafting skills, and knowledge of engineering principles and the production process, to produce blueprints and drawings of tools and equipment to be manufactured in the toolroom. Test-operates articles so designed and modifies design as necessary.

May program numerically controlled or computer-numerically controlled machine tools and machines, particularly for the fabrication of tools and prototype articles. May specialise in the design of particular types of tools and engineering equipment, such as dies, press tools or moulds.

#### Job Content Factors

##### Workers

FP: GE10-12y PSP4-6y(T)	IP: E2-4y
or FP: GE10-12y PSP4-6y(T) / (PPC)	IP: E2-4y
HC: RIC	RQ: U2 D1 V1

##### Materials

SM: D2 I2 P2 T1	EQ: P1 M2 K2
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##### Functions

MA: I2 A1 P1 D2 R2 M2 L2	
PA: P1 U2 C2 S2 W2 E2	SA: S2 L2 B1 R4

##### Context

EC: L1	TC: A1 I2
SS: 6	SC: I0 (4 y)

LMS: NA (0 %SE)

ASIC: Many

Studies blueprints, drawings or specifications of article to be manufactured. Establishes dimensions, tolerances and production sequence, utilising knowledge of tool and precision equipment construction, properties of relevant metals and other materials such as plastics, machining methods and workshop mathematics. Positions, measures and marks out metal stock or casting, using various gauges. Sets up and operates a variety of machine tools to form workpiece by cutting, turning, milling, boring, grinding or otherwise shaping stock. Checks accuracy of fabricated item to close tolerances, using precision measuring instruments. Fits and assembles tool or article parts using hand tools, test-operates and modifies as necessary.

May dismantle faulty machine tools and machines, and repair or replace defective tools, dies and fixtures. May heat-treat tools, dies and fixtures during fabrication. May braze or weld parts during assembly. May occasionally design tools and precision equipment. May set up and operate numerically controlled, computer-numerically controlled and electrical discharge machine tools, and may also program these machine tools. May work in a specialist toolmaking firm which contracts its services to industry. May specialise in the fabrication of press tools, dies, plastic moulds or jigs, or in the laying-out and finishing of impression cavities in die blocks, and may be designated accordingly, e.g.

Diemaker	Die Sinker
Jigmaker (Metal)	Plastic Mould Maker
Press-Tool Maker	

#### Job Content Factors

##### Workers

FP: GE10-12y PSP4-5y(T)	IP:
HC: RIE	RQ: D1 V1

##### Materials

SM: D2 I2 T1	EQ: P1 S2 M1 K2
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##### Functions

MA: I2 A1 P2 D2 R3 M2 L2	
PA: P1 C2 S2 W1 E3	SA: S2 L2 B2 R4

##### Context

EC: L1 C09,04	TC: A1
SS: 5	SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 6021-B TOOLMAKER Tool and Die Maker

Fabricates tools, dies, jigs, fixtures and other precision parts and equipment to exceptionally fine tolerances for use in and in conjunction with machine tools and other production machinery.

6022 MACHINISTS, FIRST CLASS

This unit group covers occupations concerned with setting up and operating a large range of machine tools using precision adjustable measuring blueprints and other detailed drawings and specifications.

**Entry Requirements** a trade qualification in machining.

**Activities include** setting up and operating machine tools to fabricate parts to fine tolerances from metal or other stock; checking dimensions of parts using precision measuring instrument; marking out reference points and lines of working surface.

6022-A MACHINIST, FIRST CLASS  
Turner

Sets up and operates a range of machine tools to shape and form metal stock and castings to fine tolerances, using detailed drawings and specifications.

Examines blueprints, drawings or specifications to determine suitable material, and method and sequence of operations, using knowledge of metal properties, machining techniques and workshop mathematics. Lifts or hoists and secures metal stock onto machine tool selected as appropriate for the task, and measures and marks out reference points or guidelines using measuring instruments. Selects cutting tool, and speed, pressure and depth of cut, then adjusts the guides, stops and controls on the machine tool using hand tools, to ensure that stock is machined to specifications. Operates machine tool to produce required article by turning, boring, milling, planing, shaping, slotting, grinding or drilling metal stock. Controls flow of lubricant onto cutting tool edges or surfaces. Periodically checks product dimensions and changes tools or readjusts settings as appropriate.

May clean, lubricate and maintain machine tools. May sharpen or true cut tools or machining surfaces. May use tracer attachment to copy a model workpiece. May machine other materials, such as plastic. May set up and operate numerically controlled or computer-numerically controlled machine tools, and may also program these machine tools. May specialise in either production or jobbing (short-run) machining. May specialise in setting up and resetting machine tools which are continuously operated by other workers, and be designated, e.g.

Machine-Tool Setter

May be designated according to the type of machine tool most commonly used, e.g.

Milling Machinist                      Vertical Driller

May specialise in setting up and operating machine tools for specific purposes such as grinding metal rolls or cutting gears, and may be designated accordingly, e.g.

Gear Cutter                      Roll Grinder

May specialise in setting up and operating machine tools to shape and form mechanical components of aircraft or automobiles, or to reshape worn or damaged components, and may be designated accordingly, e.g.

Aircraft Machinist                      Automotive Machinist

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: R1	RQ: D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: P1 M1 K2
<i>Functions</i>	
MA: A2 D2 R3 M2 L2	
PA: P1 C1 H2 S2 W1 E3	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1 C09,04,06	TC: A1 I1 R2
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

6023 FITTERS

This unit group covers occupations concerned with fitting and assembling of parts, the fabrication of these parts into certain types of products and the maintaining and repairing of those products.

**Entry Requirements** a trade qualification in machine fitting or fitting/machining. May require skills in electric and oxy-welding and oxy-cutting.

**Activities include** studying job requirements; fitting and assembling parts and sub-assemblies, using hand tools and measuring instruments; test-operating assembled items; dismantling items; repairing or replacing worn and defective parts; and reassembling items.

### 6023-A FITTER-MACHINIST Fitter and Turner

Fabricates, fits and assembles (rather than services and repairs) metal parts and sub-assemblies of production and other machinery and equipment, using hand and machine tools, precision measuring instruments and detailed drawings or specifications.

Performs tasks similar to those of 6023-C FITTER and of 6022-A MACHINIST, FIRST CLASS. Fits and assembles articles by bolting, screwing, rivetting, filing, chiselling, dowelling, brazing, soldering or welding, using hand and power tools, precision measuring instruments and soldering and welding equipment. Sets up and operates machine tools to shape and form metal stock and castings to fine tolerances by turning, boring, milling, planing, shaping, slotting, grinding or drilling.

May specialise in the fabricating, fitting and assembling of metal parts and sub-assemblies of particular types of machinery and equipment, such as railway rolling stock, materials handling equipment or construction machinery.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RI	RQ: D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: P1 S2 M1 K2
<i>Functions</i>	
MA: A2 P2 D2 R3 M2 L2	
PA: P1 C1 H2 W1 E3	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1 C09,04,06	TC: A1 I1 T2
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

### 6023-B MAINTENANCE FITTER Service Fitter; Fitter-Mechanic

Services and repairs (rather than manufactures) production and other machinery and equipment, either according to a maintenance schedule or following notification of malfunctions, using hand and machine tools, precision measuring instruments and detailed workshop manuals or specifications.

Observes equipment in operation to detect symptoms of malfunctioning such as overheating or excess noise and vibration. Studies manufacturers' manuals and specifications to determine appropriate method and sequence of operation. Where necessary, uses or directs the use of lifting equipment such as hoists or hydraulic jacks, to enable heavy machinery to be examined and worked on. Dismantles or strips units, using hand tools such as spanners, pliers, wrenches and screwdrivers, and checks parts for wear using measuring instruments. Repairs or replaces or adjusts worn or defective parts such as valves, pistons, gaskets, slides, belts, pipes, rollers and bearings. Reassembles units, using hand tools, and checks for accuracy of fit, using measuring instruments such as micrometers, plumb lines and clearance gauges. Test-operates units and adjusts as necessary. Cleans and lubricates units.

May use machine tools to reshape and reform worn or damaged metal parts. May operate welding equipment to repair defective metal parts and assemblies, and be designated accordingly, e.g.

Fitter-Welder (Maintenance)

May specialise in the maintenance of particular types of machinery and equipment such as earthmoving and similar equipment, diesel engines or plant and equipment in papermills, flourmills, sawmills or other milling establishments, and be designated accordingly, e.g.

Diesel Fitter-Mechanic; Plant Mechanic  
Millwright  
Mechanic (Diesel and Heavy Earthmoving Equipment)

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RIS	RQ: D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: A1 D2 R3 M3 L2	
PA: P1 U2 C2 W1 E3	SA: S2 L1 B2 R4
<i>Context</i>	
EC: L1 C09,06,07	TC: A1 I1 T1
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

### 6023-C FITTER Production Fitter; Bench Fitter; Mechanical Fitter; Machinery Fitter; Fitter-Assembler

Fits and assembles metal parts and sub-assemblies in the fabrication of production and other machinery and equipment, using hand tools (not machine tools), precision measuring instruments and detailed drawings or specifications.

Studies blueprints, drawings or specifications to determine method and sequence of operation, using knowledge of metal properties, fitting techniques and workshop mathematics. Checks prepared metal components for accuracy, using measuring instruments such as micrometers, callipers and rules. Lifts, hoists or supervises the hoisting by crane of components onto working surface, lays out and marks reference points of guidelines and aligns parts, using measuring instruments. Drills holes and taps threads for bolting parts together. Fits and assembles parts and sub-assemblies by bolting, screwing, rivetting, filing, chiselling, dowelling, brazing, soldering or welding, using hand tools such as hammers, metal chisels, wrenches, files and balancing tools, and soldering and welding equipment. Cuts, threads, bends and installs hydraulic and pneumatic pipes and lines, using hacksaws, pipecutters, vices and other hand tools. Verifies alignment of and clearances between components using measuring instruments such as gauges and spirit levels. Cleans and lubricates assembled articles.

May mark out stock to be shaped and formed into metal parts by other workers. May shrink-fit parts during assembly, using oxy-acetylene torch and presses. May also fit and assemble non-metallic parts. May erect machinery and equipment on site, and may first assemble articles in workshop to ensure accuracy of fit. May specialise in the fitting and assembling of particular types of machinery and equipment and be designated accordingly, e.g.

Locomotive Fitter

Machine-Tool Fitter

Turbine Fitter

May, if required to undertake extensive and complex welding tasks, be designated, e.g.

Fitter-Welder (Production)

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y (T)	IP:
HC: RIS	RQ: D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: A1 D2 R3 M3 L2	
PA: P1 U2 C2 W1 E3	SA: S2 L1 B2 R4
<i>Context</i>	
EC: L1 C09,06,07	TC: A1 I1 T1
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

## 6024 MACHINISTS, SECOND CLASS AND OTHER MACHINE SETTERS

This unit group covers occupations concerned with operating or setting up and operating only one or a few machine tools, using preset measuring instruments and working from standardised drawings or specifications.

**Entry Requirements** 2-3 years' experience.

**Activities include** studying and following instruction; securing cutting and shaping tools in machine tools or machines; setting specified speed, pressure and depth of cut and/or operating machine tools or machines to produce required items; and checking product dimensions.

### 6024-A MACHINIST, SECOND CLASS Machine Tool Setter-Operator

Sets up and operates one or more machine tools and machines to shape and form metal stock and castings, using present measuring instruments and standardised drawings or instructions.

Examines drawings or specifications and follows prescribed method and sequence of operation. Fastens required cutting tool in position and sets specified speed, pressure and depth of cut. Operates machine tool or machine to produce required article by performing a limited number of operations such as boring, milling, drilling, stamping, pressing, turning or otherwise shaping metal stock. Periodically checks product dimensions, using preset or unadjustable measuring instruments and readjusts settings as appropriate.

May operate machine tools and machines which have been set up by other workers. May operate numerically controlled or, less frequently, computer-numerically controlled machine tools. May be designated according to the machine tool or machine most frequently used, e.g.

Milling Machine Operator  
Vertical Borer Setter-Operator

#### Job Content Factors

<b>Workers</b>	
FP: GE NFR	IP: T3-12m E2-3y
HC: R	RQ: D2 V2
<b>Materials</b>	
SM: T1	EQ: P2 S1 M1 K2
<b>Functions</b>	
MA: D2 R3 M3 L3	
PA: P2 U1 C2 S2 W2 E3	SA: S2 L1
<b>Context</b>	
EC: L1 C09,04,06	TC: A1 I1 R2
SS: 3	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: Many

### 6024-B TOOL AND DIE SETTER Toolsetter

Following straightforward instructions, sets up machine tools and other production machines which are operated by other workers to shape and form stock of metal, plastic, wood and other materials.

Studies job specification cards or other instructions, selects and fixes prescribed cutting or shaping tool in appropriate machine tool or machine and secures workpiece, using basic hand tools such as spanner, Allen keys and screwdrivers. Adjusts guides, stops and controls on machine tool or machine, following instructions, to ensure that stock is machined to specifications.

May periodically check product dimensions, using measuring instruments, and report significant deviations from specifications. May specialise in setting up particular types of machine tools or machines, such as drilling machines, injection moulding machines or power presses. May, if specialising in the securing of dies in forging, stamping, moulding and pressing machines, be designated, e.g.

Diesetter

#### Job Content Factors

<b>Workers</b>	
FP: GE NFR	IP: T6-18m E2y
HC: R	RQ: D2 V1
<b>Materials</b>	
SM: D2 T1	EQ: P2 S1 M1
<b>Functions</b>	
MA: P2 D2 R3 M3 L2	
PA: P1 U2 C2 W1 E2	SA: S2 L2
<b>Context</b>	
EC: L1 C09	TC: A1 I1 T2
SS: 3	SC: 4 (7 y)
LMS: 7000 (0 %SE)	ASIC: Many

## 6025 APPRENTICE METAL MACHINING OCCUPATIONS

This unit group covers apprentice occupations in the various metal machining and related trades.

**Entry Requirements** persons in these occupations will normally have satisfied relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

**6025-A APPRENTICE TOOLMAKER**

Receives instruction and training in the trade of toolmaking.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors**Workers*

FP: GE10y

HC: RI

IP:

RQ: D2 V1

*Materials*

SM: D2 T1

EQ: P1 S2 M1 K2

*Functions*

MA: P2 D3 R3 M2 L2

PA: P1 U2 C1 S2 W1 E2

SA: S2 L1

*Context*

EC: L1 C09,04,06

TC: A1 R2

SS: 1

SC: 3 (3 y)

LMS: NA (0 %SE)

ASIC: Many

**6025-B****APPRENTICE FITTER-MACHINIST**

Apprentice, Fitting and Turning; Apprentice, Turning and Other Machining

Receives instruction and training in the trade of fitting-machining.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May specialise in automotive machining and be designated accordingly, e.g.

Apprentice Aircraft Machinist

Apprentice Automotive Machinist

*Job Content Factors**Workers*

FP: GE10y

HC: RI

IP:

RQ: D2 V1

*Materials*

SM: D2 T1

EQ: P1 S2 M1 K2

*Functions*

MA: P2 D3 R3 M2 L2

PA: P1 U2 C1 S2 W1 E2

SA: S2 L1

*Context*

EC: L1 C09,04,06

TC: A1 R2

SS: 1

SC: 3 (3 y)

LMS: NA (0 %SE)

ASIC: Many

**6029 OTHER METAL MACHINING OCCUPATIONS**

This residual unit group covers occupations concerned with metal machining, tool designing and toolmaking, not elsewhere classified in Minor Group 602.

**6029-Z****METAL MACHINING OCCUPATIONS**

nec

machining, not elsewhere classified in Minor Group 602.

This residual group covers occupations concerned with metal

## MINOR GROUP 603/4

### METAL SHAPING AND FORMING OCCUPATIONS, EXCEPT MACHINING

Metal Shaping and Forming Occupations, Except Machining, are classified in the following unit groups.

- 6030 Supervisors/Foremen/women, Metal Shaping and Forming Occupations, Except Machining
- 6031 Forging Trade Occupations
- 6032 Sheet Metal Trade Occupations
- 6033 Sheet Metal Non-Trade Occupations
- 6034 Welding Trade Occupations
- 6035 Welding Non-Trade Machine Operators
- 6036 Manual Welding and Flamecutting Non-Trade Occupations
- 6037 Boilermaking and Structural Steel Trade Occupations
- 6038 Shipwrights, Metal
- 6040 Metal Spinners
- 6041 Apprentice Metal Shaping and Forming Occupations, Except Machining
- 6049 Other Metal Shaping and Forming Machine Operators

#### 6030 SUPERVISORS/FOREMEN/WOMEN, METAL SHAPING AND FORMING OCCUPATIONS, EXCEPT MACHINING

This unit group covers occupations concerned with metal forging, welding and related activities, except machining.

**Entry Requirements** a trade qualification in a relevant area plus 4-6 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### 6030-A SUPERVISOR/FOREMAN, FORGING

Supervises and co-ordinates activities of workers engaged in shaping and forming metal parts by hammering, pressing, swaging and drop-forging metal into specified shapes, with or without benefit of heat.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

##### *Job Content Factors*

###### *Workers*

FP: GE10y PSP4y(T)      IP: T2m E4-6y  
HC: RE1      RQ: D2 V1

###### *Materials*

SM: D2 P2 T1      EQ: P2 S2 M2

###### *Functions*

MA: A2 P1 D2 R2 M2 L2      SA: S2 L2 B1 R3-4  
PA: P2 U2 C2 S2 W1 E3

##### *Context*

EC: L1 C01,09,04  
SS: 6

TC: A1 I1 T2  
SC: 9 (3 y)

LMS: NA (0 %SE)

ASIC: 31,32,33

#### 6030-B SUPERVISOR/FOREMAN/WOMAN, SHEET METALWORKING

Supervises and co-ordinates activities of workers engaged in the marking out, shaping, forming, joining, fitting, assembling and installing of sheet metal into a range of products and components.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**Job Content Factors****Workers**

FP: GE10y PSP4y(T) IP: T2m E4-6y  
 HC: RIE RQ: D2 V1

**Materials**

SM: D2 I2 P2 T1 EQ: P1 S2 M2

**Functions**

MA: I2 A1 P1 D2 R2 M2 L2  
 PA: P1 U2 C2 S2 W1 E2 SA: S2 L2 B1 R3-4

**Context**

EC: L1 C09,04 TC: A1 I2 T2  
 SS: 6 SC: 9 (3 y)

LMS: NA (0 %SE)

ASIC: 31,32,33

### 6030-C SUPERVISOR/FOREMAN/WOMAN, WELDING AND FLAME CUTTING

Supervises and co-ordinates activities of workers engaged in joining, surfacing, cutting or otherwise fabricating and repairing ferrous and non-ferrous metal parts and structures, using welding, brazing, soldering and cutting equipment.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**Job Content Factors****Workers**

FP: GE10y PSP4-5y(T) IP: T2-3m E4-6y  
 HC: RIE RQ: D2 V1

**Materials**

SM: D2 I2 P2 T1 EQ: P1 S2 M2

**Functions**

MA: I2 A2 P1 D2 R2 M2 L2  
 PA: P1 U2 C2 S2 W1 E3 SA: S2 L2 B1 R3-4

**Context**

EC: L1 C05,02,10 TC: A1 I2 T2  
 SS: 6 SC: 9 (3 y)

LMS: NA (0 %SE)

ASIC: Many

### 6030-D SUPERVISOR/FOREMAN/WOMAN, METAL FABRICATING AND STRUCTURAL METALWORKING

Supervises and co-ordinates activities of workers engaged in fabricating, assembling, erecting and repairing boilers, pressure vessels and other metal structures, and fabricating and

assembling parts in workshops for storage tanks, vats, ships and other structures made from steel plates, tubes, beams, castings and similar materials.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**Job Content Factors****Workers**

FP: GE10y PSP4y(T) IP: T2-3m E4-6y  
 HC: REI RQ: D2 V1

**Materials**

SM: D2 P2 T1 EQ: P2 S2 M2

**Functions**

MA: I2 A2 P1 D2 R2 M2 L2  
 PA: P2 U2 C2 W1 B2 E3 SA: S2 L2 B1 R3-4

**Context**

EC: L4 C05,09,12 TC: A1 I2 T2  
 SS: 6 SC: 9 (3 y)

LMS: NA (0 %SE)

ASIC: Many

### 6030-E FOREMAN/WOMAN, METAL SPINNING AND METALWORKING MACHINE OPERATING

Supervises and co-ordinates activities of workers engaged in setting up and/or operating metal spinning, nibbling, shearing, punching, pressing, flanging, bending or otherwise shaping and forming machines, and who are not elsewhere classified.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**Job Content Factors****Workers**

FP: GE10y PSP4y(T) IP: T2-3m E4-6y  
 HC: REA RQ: D2 V1

**Materials**

SM: D2 P2 T1 EQ: P2 S2 M2

**Functions**

MA: P1 D2 R2 M2 L2  
 PA: P1 U2 C2 S2 W1 E3 SA: S2 L2 B1 R3-4

**Context**

EC: L1 C09,04 TC: A1 I2 T2  
 SS: 6 SC: 9 (3 y)

LMS: NA (0 %SE)

ASIC: 31,32,33

## 6031 FORGING TRADE OCCUPATIONS

This unit group covers occupations concerned with heating metal in a forge or furnace and forming it into desired shapes, using forging hand tools or operating powered forging machines. Duties also include shaping metal without benefit of heat.

**Entry Requirements** a trade qualification, or Year 10-12 plus 2-3 years' experience in forging and related tasks.

**Activities include** heating and hammering (that is, forging metal stock to produce metal articles or components) operating powered forging machines; and hardening, tempering or annealing.

**Related Occupation**

Occupation 5012-D : Farrier (Non-Apprenticed)

### 6031-A BLACKSMITH

Shapes bars, rods and blocks of metal by heating and hammering (forging), to produce or repair a variety of metal articles such as tools, chains and parts for agricultural or

other machinery, using hand and power hammers, welding and cutting equipment, presses and guillotines, and applies knowledge of types of fires and furnaces and simple heat treatment processes.

Ascertains job requirements from drawings or other specifications. Selects metal stock and heats or supervises heating of the metal in fire or furnace (a forge). Positions heated metal on anvil, former or other working surface and hammers, punches or cuts it to specified size and shape using hammers, tongs, chisels, hot saws and presses. Checks accuracy of forging visually and using measuring instruments. Forge-welds parts together by heating, applying flux and hammering together. Anneals, tempers and hardens finished articles as required, by specified methods of heating and quenching in oil or water bath, or cooling gradually in air. Directs helper to hold forming tools to assist in lifting and holding workpiece during hammering.

May specialise in type of work done, for example, making and repairing agricultural equipment, or repairing mine and quarry machinery.

#### Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
HC: RAE	RQ: D2 V1
<b>Materials</b>	
SM: D2 T1	EQ: P1 S1 M1
<b>Functions</b>	
MA: A2 D2 R2 M3 L2	
PA: P1 U2 C1 W1 E4	SA: S1 L2 B2 R4
<b>Context</b>	
EC: L1 C01,06,09	TC: A1 I2
SS: 3	SC: 5 (4 y)
LMS: 1800-2000(40%SE)	ASIC: 31,32,33

#### 6031-B MASTER FARRIER (APPRENTICED)

Inspects, trims and shapes hooves and forms, fits and nails horseshoes to horse's hooves using knowledge of different shoe properties and of horse anatomy.

Using pincers, removes worn or defective shoes, noting wear pattern. Inspects foot to check for such things as foreign bodies, bruising, infections or anatomical abnormalities. Observes horse's legs and feet while animal is stationary and in motion to check for deviations in flight, interference, peculiarities in gait or abnormalities in size and shape of feet. Trims and shapes hoof using knife, hoof cutters and rasp. Measures horse's foot and estimates length of metal required for shoe. Selects and cuts metal for shoe with the type, size, weight and use of the horse in mind. Selects nails according to the wall texture of the hoof and the size of the shoe. Stokes and lights forge. Heats metal in forge and, placing it on the anvil, shapes with hammer. Positions shoe against hoof to shape with hammer and to determine the extent of shaping required. Punches nail holes using stamp and pritchel.

Positions and nails shoe to hoof and ensures that clips and clenched nails are smooth and flush with walls of hoof. Trims hoof flush with shoe, using rasp.

May specialise in corrective or surgical shoeing.

#### Job Content Factors

<b>Workers</b>	
FP: GE10y PSP5y(T)	IP:
HC: R1E	RQ: Q2 D2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S1 M2
<b>Functions</b>	
MA: A2 D2 R2 M3 L2	
PA: P1 U2 C1 H2 W1 B2 E3	SA: S1 L2 I1 P2 B2 R4
<b>Context</b>	
EC: L4 C01,06	TC: A2 I1 T2
SS: 5	SC: 8 (4 y)
LMS: NA (90%SE)	ASIC: 02,914

#### 6031-C FORGING SMITH Forger; Hammersmith

Operates power hammer or press equipped with open dies to shape heated metal stock into forging.

Selects dies following work order diagram or specifications. Installs and aligns dies on ram and anvil of machine, using hand tools and measuring instruments. Observes colour of metal in furnace to determine forging temperature. Directs removal of metal from furnace and positioning of metal on anvil of machine. Starts machine and regulates action of hammer or signals helper to manipulate hammer controls. Varies length and force of hammer stroke according to type of metal or nature of article being forged. Verifies dimensions of forging, using scale, gauges, templates and callipers.

May forge cold metal. May use handforging methods. May be designated according to product, e.g.

Springmaker

Toolsmith

#### Job Content Factors

<b>Workers</b>	
FP: GE10-12y PSP or FP: GE10y PSP4y(T)	IP: T12-18m E2-3y
HC: R1	IP:
	RQ: D2 V1
<b>Materials</b>	
SM: D1 T1	EQ: P2 S1 M1
<b>Functions</b>	
MA: A2 D2 R3 M3 L2	
PA: P1 U2 C1 S2 W1 E3	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1 C09,01,04	TC: A1 I1 R2
SS: 5	SC: 8 (4 y)
LMS: 200-250 (0 %SE)	ASIC: 31,32,33

### 6032 SHEET METAL TRADE OCCUPATIONS

This unit group covers occupations concerned with the laying out, marking, shaping, forming and joining of sheet metal, copper and other metal stock.

**Entry Requirements** a trade qualification in a relevant area.

**Activities include** laying out and fabricating patterns around which metal and occasionally other materials are shaped and cut out; and shaping, forming, joining sheet metal, pipes and other stock of metal.

#### Related Occupation

Occupation 6004-A : Patternmaker, Metal Casting

### 6032-A PATTERNMAKER, SHEET AND STRUCTURAL METAL Model Maker (Metal)

Lays out and fabricates templates and patterns around which sheet and structural metal (and materials such as fibreglass) are shaped and cut out.

Prepares prints on paper pattern required, using drawing instruments and applying knowledge of drafting principles and product design, or receives prints from drawing office. On the basis of these drawings, lays out design on pattern material, such as sheet metal, plywood or plastic, using drafting equipment and marking devices. Fabricates pattern from stock, using hand and power tools. Where necessary, and particularly when three-dimensional model around which product is to be shaped is required, builds up final pattern from fabricated components by, for example, welding or fastening parts, folding and bending metal sheets or adding malleable material such as clay or plaster to fill-out model frame. Finishes pattern or model using hand tools and abrasive materials and marks out necessary reference points on pattern.

May repair or rebuild worn and damaged patterns. May be designated according to the type of pattern or model fabricated or the product to be made from the pattern, e.g.

Aircraft Patternmaker (Loftsmen/woman)  
Patternmaker, Metal Furniture  
Template Maker

#### Job Content Factors

##### Workers

FP: GE10y PSP4y(T) IP:  
HC: RIA RQ: D2 V1

##### Materials

SM: D2 T1 EQ: P1 S2 M2

##### Functions

MA: A1 P2 D2 R3 M2 L2  
PA: P1 U2 S2 W1 E2 SA: S1 L2 B2 R4

##### Context

EC: L1 C09,06 TC: A1  
SS: 5 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 6032-B SHEET METAL WORKER, FIRST CLASS

Marks out, shapes, forms and joins sheet metal and occasionally other materials for any of a range of products or components, using hand and power tools and machines.

Undertakes any of the following tasks. Examines detailed drawings or specifications to determine job, material and equipment requirements. Selects appropriate stock, such as stainless steel, galvanised iron, mild steel, aluminium, copper, tinplate, plastic or fibreglass, and checks size, gauge and other dimensions of material relative to specifications. Marks out stock with reference points and lines, using templates, gauges and other measuring and marking-out instruments, according to product specifications. Cuts material following these guidelines using hand or power shears, guillotine or drills. Shapes and forms cut material into desired product by, for example, bending, folding, rolling or pressing, using equipment such as folding or bending machines, rollers or presses. Joins components by such means as rivetting, bolting, welding, brazing or soldering, using hand and power tools and equipment. Hand or machine-polishes, files or otherwise finishes item. Fits and installs certain products, such as refrigeration ducts or partitions, using hand and power tools.

May specialise in either fabrication or on-site assembly and installation of sheet metal products. May repair damaged sheet metal products and components. May specialise in the fabrication and/or fitting and installation of particular types of sheet metal products, such as railway carriage panels, cabinets, air-conditioning ducts, roofing material, hospital equipment, metal artefacts and ornaments or aircraft frame components, and be designated accordingly, e.g.

Aircraft Sheet Metal Worker  
Ornamental Sheet Metal Worker

#### Job Content Factors

##### Workers

FP: GE10y PSP4y(T) IP:  
HC: RIE RQ: V2

##### Materials

SM: D2 T1 EQ: P1 S2 M1

##### Functions

MA: A2 P2 D2 R2 M2 L2  
PA: P1 U2 C1 H2 W1 E3 SA: S2 L2 B2 R4

##### Context

EC: L4 C09,04,12 TC: A1  
SS: 5 SC: 5 (vy)

LMS: NA (10%SE)

ASIC: 31,33

### 6032-C COPPERSMITH

Marks out, shapes, forms and joins sheets, pipes and other stock of copper and occasionally other metals into any of a range of products and components.

Examines detail drawings or specifications to determine job, material and equipment requirements. Selects and checks specified metal type, shape and dimensions. Marks out stock with reference points and lines in accordance with product specifications, using templates, gauges and other measuring and marking-out instruments. Cuts material following these guidelines, using hand or power shears, hacksaws, drills and other cutting machines. Shapes and forms cut material into desired products or components, such as tanks, vats, hot water systems, piping, tubs and ornaments, by such methods as rolling, bending, pressing, heating and hammering using hand tools, presses and other machines. Where necessary anneals metal to retain malleability during shaping. Checks product or components against specifications during and after shaping using templates and other measuring instruments. Fits and assembles components into final product by welding, rivetting, soldering, brazing or otherwise joining. Cleans and polishes assembled product. Repairs worn or damaged copper articles.

May install copper products in premises. May specialise in decorative copperwork. May specialise in working with copper sheet or with piping and other metal stock. May, if working extensively in brass or tinplate, be designated, e.g.

Brass Smith Tinsmith

#### Job Content Factors

##### Workers

FP: GE10y PSP4y(T) IP:  
HC: RA RQ: V1

##### Materials

SM: D2 T1 EQ: P1 S2 M1

##### Functions

MA: P2 D2 R3 M2 L2  
PA: P1 U2 C1 W1 E3 SA: S2 L2 B2 R4

##### Context

EC: L4 C09,04 TC: A1  
SS: 5 SC: 5 (vy)

LMS: 250 (10%SE)

ASIC: 31,33

6033 SHEET METAL NON-TRADE OCCUPATIONS

This unit group covers occupations concerned with the shaping and forming of sheet metal by hand or machine, and the fitting, assembling and installation of sheet metal products and components.

**Entry Requirements** 6 months' experience in related work.

**Activities include** shaping and forming metal by hand or machine; and fitting, assembling and installing sheet metal products or components on site.

6033-A SHEET METAL WORKER, SECOND CLASS (MANUFACTURING)

Shapes, forms and cuts sheet metal by hand or machine, generally on a repetitive basis, following straightforward specifications or instructions.

Undertakes any of the following tasks. Operates one or more sheet metal shaping, forming, cutting and joining machines which have generally been preset, such as brake presses, folding and bending machines, rollers, rivetting machines, guillotines, drills or spot-welders. Using hand or power shears or nibblers, cuts metal by hand following template or previously marked guidelines. Checks product dimensions during and after fabrication, using templates and other preset measuring instruments. Bolts, rivets, spot-welds or otherwise joins components. Finishes products by cleaning, polishing, filing or bathing in acid preparation.

May be designated according to type of machine or equipment used, e.g.

- Guillotine Operator (Metal)
- Sheet Metal Rolling Machine Operator

Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T6-18m E6m
HC: R	RQ: V2
<i>Materials</i>	
SM: T1	EQ: S1 N2 M1
<i>Functions</i>	
MA: D2 R4 M3 L3	
PA: P2 U1 C2 W1 E3	SA: S1 L2
<i>Context</i>	
EC: L1 C09,04	TC: A1 R2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 31,33

6033-B SHEET METAL WORKER, SECOND CLASS (INSTALLATION)  
Ductworker

Fits, assembles and installs sheet metal products or components on site, following work order or straightforward instruction.

Undertakes any of the following tasks. Cuts sheet metal stock following previously marked guidelines, using hand and power tools such as hacksaws, shears or nibblers. Drills mounting holes in stock and surface on which item is to be mounted. Assembles and mounts components by, for example, rivetting, bolting, soldering or brazing.

May specialise in the type of sheet metal assembly installed, for example, ventilation shafts, air-conditioning or heating ducts, furnace casings or metal partitions.

Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T6-18m E6m
HC: RS	RQ: V2
<i>Materials</i>	
SM: T1	EQ: S1 N2 M2
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C1 H1 W1 B1 E3	SA: S1 L2
<i>Context</i>	
EC: M2 L4 C07,12,09	TC: A1 I2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 424

6034 WELDING TRADE OCCUPATIONS

This unit group covers occupations concerned with assembling, fabricating, and repairing pressure vessels and pipes and other metal products, employing different welding processes.

**Entry Requirements** a trade qualification and, in some cases, certification from appropriate State licensing authority.

**Activities include** studying blueprints and other specifications and carrying out welding in conformity with standards required for a particular purpose; flame and arc-cutting, gouging, assembling, fabricating and repairing of pressure vessels, pipes and all other metal products including all welding processes on all metals.

**6034-A PRESSURE WELDER**  
**Welder, Pressure Pipes; Welder, Pressure Vessels**

Assembles, welds and repairs pressure vessels and pipes to meet pressure test standards, in fabrication shop and on site and employing all welding techniques.

Studies blueprints or other specifications to determine job requirements. Cleans and prepares metal surfaces by flamecutting, gouging, bevelling, using flamecutting torch, grinding or filing. Aligns surfaces to be joined and secured by such methods as tack-welding or jiggling. Selects welding technique appropriate to type and thickness of metal. For electric welding only, connects electrode holder to power source and adjusts controls on electrode holder or machine to regulate current. Forms arc which generates heat to melt metal from electrode and deposit on workpiece so as to fuse workpiece joints. Guides electrode along weld line. Welds in a variety of positions, including horizontal, vertical and overhead, as required. Cleans and smooths weld by such methods as filing, chiselling or grinding and examines weld for width of bead (welded metal), penetration and precision. Modifies as necessary. Cuts metal shapes using flamecutting torches.

**Job Content Factors**

**Workers**

FP: GE10y PSP4-5y(T) IP:  
 HC: R1 RQ: S1 U2 D2 V1

**Materials**

SM: D2 T1 EQ: P1 S1 M2

**Functions**

MA: A2 P2 D2 R3 M3 L2  
 PA: P1 U2 C2 W1 B2 E3 SA: S2 L2 B2 R4

**Context**

EC: M2 L4 C05,07,02 TC: A1 I2  
 SS: 5 SC: 5 (vy)

LMS: NA (0 %SE) ASIC: Many

**6034-B WELDING TRADESPERSON**  
**Welder, First Class**

Fabricates or repairs metal products by welding metal parts or surfaces together, applying, at various times, several different welding processes.

Studies blueprints, specifications or other instructions to determine appropriate welding process and other job requirements. Cleans and prepares metal surfaces for welding by flamecutting, gouging, bevelling, grinding or filing. On thick materials (e.g. castings) preheats to required temperature. Fits appropriate torch tips, electrodes or other attachments to equipment and connects hoses to gas tanks, or wires to power source. Adjusts controls on electrode holder or machine to regulate pressure, voltage or amperage. Opens valves or switches and lights torch, strikes arc or starts machine. Guides torch or electrode along line of weld manually or by operating machine controls. Cleans and smooths weld by such methods as filing, chiselling or grinding and examines visually. Welds in a variety of positions, including horizontal, vertical and overhead. Cuts metal shapes using flamecutting torches.

May specialise in particular welding processes, such as electric arc (also known as manual-metal-arc or stick electrode); powder and wire spray, gas, including carbon dioxide, tungsten-inert-gas (TIG), metal-inert-gas (MIG) or oxy-acetylene; or machine, including flux-cored arc, submerged arc, electroslog, plasma arc, electron beam or laser. May set up welding machines for other operators. May, if in possession of appropriate authority from the Department of Defence Directorate of Quality Assurance or the Department of Aviation, specialise in the welding of aircraft parts and sub-assemblies and be designated, Welder, Aircraft

May apply general trade experience and be competent in the welding of all the following classes of metals: mild steel, stainless steel, cast iron, aluminium, copper, brass, diecast metal and magnesium and be designated,  
 Welder, Special Class

**Job Content Factors**

**Workers**

FP: GE10y PSP4y(T) IP:  
 HC: R1 RQ: U2 D2 V1

**Materials**

SM: D2 T1 EQ: P1 S1 M2

**Functions**

MA: A2 P2 D2 R3 M3 L2  
 PA: P1 U2 C2 W1 B2 E3 SA: S1 L2

**Context**

EC: M2 L4 C07,12,09 TC: A1 I2  
 SS: 5 SC: 5 (vy)

LMS: 17500 (0 %SE) ASIC: Many

**6035 WELDING NON-TRADE MACHINE OPERATORS**

This unit group covers occupations concerned with the operation of arc or other welding machines in the fabrication of metal parts and equipment.

**Entry Requirements** Year 9-10.

**Activities include** welding fabricated parts of metal products; and operating machines which have been set up by tradespersons, particularly for more complex operations.

**6035-A GAS-SHIELDED-ARC WELDING**  
**MACHINE OPERATOR**

Welds fabricated parts of metal products by operating arc-welding machine fitted with welding gun which blows inert or non-combustible gas such as helium, argon or carbon dioxide over arc to prevent oxidation of metal in weld area.

Undertakes any of the following duties. Cleans, positions and clamps workpiece so that welding gun is over weld line. Threads specified electrode wire from reel through automatic feed rolls and welding gun. Sets angle of electrode and adjusts controls to regulate amperage and synchronise feed of electrode wire with speed of welding action. Connects hose from gun to gas cylinder. Starts machine and observes

welding action. Examines weld for adherence to specifications. Where necessary, adjusts controls to vary size and penetration of bead (welded metal) and rewelds as required.

May operate machine which has been set up by tradespersons particularly for more complex operations. May be designated by process or gas used, e.g.

Argon-Arc Welding Machine Operator; Argon-Arc Welder  
Carbon Dioxide Welding Machine Operator; Carbon  
Dioxide Welder; CO2 Welder  
Metal-Inert-Gas (MIG) Welding Machine Operator; MIG  
Welder  
Plasma-Arc (PA) Welding Machine Operator; PA Welder  
Tungsten-Inert-Gas (TIG) Welding Machine Operator; TIG  
Welder

**Job Content Factors**

**Workers**

FP: GE9-10y IP: T3-12m  
HC: R RQ: D2 V2

**Materials**

SM: T1 EQ: P2 S1 W2

**Functions**

MA: D3 R4 L3  
PA: P1 U1 C2 W1 E2 SA: S2 L2

**Context**

EC: L1 C05.04,10 TC: A1 I2 R2  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: Many

**6035-Z**

**WELDING NON-TRADE MACHINE  
OPERATORS nec**

Operates arc or other welding machine in the fabrication of metal parts and equipment.

May operate machine which has been set up by tradesperson particularly for more complex operations. May be designated, Welder, Second Class

**6036 MANUAL WELDING AND FLAMECUTTING NON-TRADE OCCUPATIONS**

This unit group covers occupations concerned with the welding and bonding of components or surfaces in the fabrication or repair of metal products.

**Entry Requirements** no formal requirements.

**Activities include** welding together metal parts using electric-arc or oxy-acetylene welding equipment; flame-brazing to bond components; or the cutting, trimming and scarfing of metal objects to required dimensions, using oxy-acetylene flamecutting torch.

**6036-A**

**ELECTRIC-ARC WELDER**

Manual-Metal-Arc Welder; Stick Electrode  
Welder

Welds metal parts together in the fabrication or repair of metal products, using electric-arc welding equipment.

Prepares metal for welding by cleaning and smoothing. Positions and secures metal parts prior to welding by such methods as tack-welding or clamping in fixture. Attaches specified electrode to electrode holder. Connects cables from welding gun to power terminals. Adjusts controls to regulate voltage and amperage, according to specifications. Forms arc to generate heat in order to melt metal from electrode and deposit on workpiece, thus fusing joints. Guides electrode along weld line. Cleans finished weld with hand and power tools such as chipping hammers, wire brushes or grinders. Examines weld for size and penetration of bead (weld metal) in accordance with prescribed standards. Rewelds as necessary.

**Job Content Factors**

**Workers**

FP: GE NFR IP: T6-18m  
HC: R RQ: D2 V1

**Materials**

SM: T1 EQ: P2 S1 W2

**Functions**

MA: D3 R4 L3  
PA: P2 U1 C2 H2 W1 E2 SA: S2 L2

**Context**

EC: L1 C05.02,10 TC: A1 R1  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: Many

**6036-B**

**GAS WELDER/CUTTER**

Oxy-Acetylene Welder/Cutter

Welds metal parts together in the fabrication or repair of metal products, using gas welding equipment; or, alternatively, cuts, trims or scarfs metal objects to required dimensions, contour or bevel, using flamecutting torch.

Cleans and smooths metal workpiece. Marks out welding or cutting line. Positions and secures workpiece by such methods as tack-welding or assembling and clamping in fixture. Attaches appropriate torch or cutting tip. Connects hoses to gas cylinder and adjust valves to regulate pressure according to specifications. Directs torch or cutting tip to weld cutting line and guides tip along line. Examines weld for size and penetration of bead (weld metal) in accordance with prescribed standards and rewelds as necessary. When cutting, directs flame onto cutting line until heated to oxidising temperature, then regulates oxygen flow to burn path along line. Inspects severed workpiece and smooths cut edges using chisel or grinder.

**Job Content Factors**

**Workers**

FP: GE NFR IP: T6-18m  
HC: R RQ: D2 V2

**Materials**

SM: T1 EQ: S1 W1

**Functions**

MA: D3 R4 L3  
PA: P2 U1 C1 W1 E2 SA: S2 L2

**Context**

EC: L1 C05.09 TC: A1 I2 R2  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: Many

**6036-C BRAZIER**

Operates flame-brazing equipment to bond components of metal products.

Examines product, work order or specifications and selects torch tip, brazing alloy rod and flux appropriate to type and thickness of metal. Cleans workpiece, aligns and clamps surfaces to be bonded, using measuring instruments where appropriate, and secures in jig or fixture. Connects regulators to cylinders, hoses to regulators and torch tip to torch. Opens cylinder valves, observes gauges and regulates pressure to specifications. Lights torch and regulates mixture to obtain desired colour and intensity of flame. Applies flux to alloy rod or workpiece and guides rod and torch along joint to bond surfaces together. Builds up worn surfaces by prolonged application of torch and alloy. Inspects brazed joint and tests for completeness, using water or compressed air. Rebrazes as necessary.

May set up and operate fixed brazing machine instead of hand-held equipment.

**Job Content Factors****Workers**

FP: GE NFR IP: T6-12m  
HC: RA RQ: D2 V1

**Materials**

SM: T1 EQ: P2 S1 W1

**Functions**

MA: A2 D3 R4 L3  
PA: P2 U1 C1 W1 E3 SA: S2 L2

**Context**

EC: L1 C05 TC: A1 I2  
SS: 3 SC: 5 (7 y)

LMS: NA (10%SE)

ASIC: 31

**6036-D SOLDERER  
Solderer and Dipper**

Bonds components or surfaces in the manufacture or repair of metal products, using soldering iron.

Undertakes any of the following tasks. Studies work order or specifications to determine job requirements. Aligns and clamps surfaces to be bonded, using measuring instruments where necessary, and positions workpiece in jig or fixture. Cleans and prepares surfaces to be bonded, using files, wire brushes or cleaning compound, and applies flux along joints to be soldered. Heats soldering iron electrically or in gas flame and applies tip of iron to tin alloy in order to clean and tin iron. Guides iron and bar or wire of solder along joint to achieve bonding. Removes excess solder when cooled by rubbing, filing or scraping.

May also heat workpiece to facilitate soldering. May bond by dipping workpiece into molten solder or by placing solder strip between surfaces and heating seam.

**Job Content Factors****Workers**

FP: GE NFR IP: T3-6m  
HC: R RQ: V1

**Materials**

SM: T1 EQ: P2 S1 W1

**Functions**

MA: D3 R4 L3  
PA: P2 U2 C2 S2 W1 E2 SA: S2 L2

**Context**

EC: L1 C01 TC: A1 I2 R2  
SS: 3 SC: 5 (7 y)

LMS: NA (0 %SE)

ASIC: 31

**6037 BOILERMAKING AND STRUCTURAL STEEL TRADE OCCUPATIONS**

This unit group covers occupations concerned with fabricating, assembling, erecting and repairing boilers and other products; and fabricating parts and sub-assemblies from steel plates, tubes, beams or similar materials for tanks and other structures.

**Entry Requirements** a trade qualification.

**Activities include** working from drawings to lay out and mark metal; setting up and operating machines and equipment to cut, bend, roll or otherwise shape and form structural metal; welding, bolting or otherwise joining the metal components; and erecting or repairing metal structures on site.

**6037-A METAL FABRICATOR  
Boilermaker**

Marks off, fabricates, erects and/or repairs steel or iron ships or boilers or other vessels subject to greater pressure than the weight of their contents, including iron or steel receivers or retorts.

Studies drawings to determine layout and sequence of operation. Marks guidelines on metal stock, using measuring and marking-off tools and equipment. Cuts marked metal sections using hand tools or flamecutting torches, or alternatively by setting up and operating metalworking machines such as guillotines and shearing machines. Shapes and bends sections using hand and machine tools such as vices, hydraulic presses and rolling machines, or by smithing (heating and hammering). Positions and aligns parts, using

hand tools and measuring instruments and, in the case of larger sections, with the aid of cranes and other lifting equipment. Joins parts by welding, bolting or rivetting.

May direct helper in the performance of any of the above tasks. May make full-size templates to be used in marking off all subsequent identical tasks or in the fabrication of particular structural metal products and be designated accordingly, e.g.

Metal Fabricator/Marker-off; Boilermaker/Marker-off  
Metal Fabricator/Welder; Boilermaker/Welder  
Pipe Bender

**Job Content Factors****Workers**

FP: GE10y PSP4y(T) IP:  
HC: R1E RQ: S2 D2 V1

**Materials**

SM: D2 P2 T1 EQ: P1 S1 M2 W2

Functions

MA: I2 A2 P2 D2 R2 M2 L2

PA: P1 U2 C1 W1 E4

SA: S2 L2 B1 R4

Context

EC: L4 C09,04,05

TC: A1 I2

SS: 5

SC: 5 (vy)

LMS: 27500 (0 %SE)

ASIC: 31,32,33

**6037-B STRUCTURAL STEEL TRADESPERSON**  
Structural Boilermaker; Metal Fabricator,  
Structural

Lays out, aligns, fits, assembles, joins, makes and/or repairs tanks, water locks, towers (other than agricultural or pastoral types), wagons, tenders, trucks, rolling stock, bridges, girders, columns, trusses, principles (roofs or otherwise), structural iron and steelwork or motor vehicle chassis, or new vehicles made by mass production methods.

Studies drawings and other specifications to determine location and interrelationship of parts. Supervises crane operators and riggers in the lifting and positioning of parts and structures. Checks alignment of sections, using measuring instruments, and assembles by clamping, bolting or tack-welding prior to final joining. Joins sections by welding,

bolting or occasionally rivetting and assists in testing assembled structure to ensure that specifications have been met in such regards as stress, tension or alignment. Repairs on site by unbolting or flamecutting defective sections, replacing worn lugs on bolts and installing new sections by welding or bolting. Supervises other workers during assembly, erection and repair.

May fabricate smaller parts as required, using hand and machine tools and welding equipment.

**Job Content Factors**

**Workers**

FP: GE10y PSP4y(T)

IP:

HC: RE1

RQ: D2 V1

**Materials**

SM: D2 P2 T1

EQ: P1 S1 M2 W2

**Functions**

MA: A2 P2 D2 R2 M2 L2

PA: P1 U2 C1 W1 B1 E4

SA: S2 L2 B1 R4

**Context**

EC: L2 C12,05,09

TC: A1 I2

SS: 5

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 41,42

**6038 SHIPWRIGHTS, METAL**

This unit group covers occupations concerned with the fabrication, installation and repair of structural sections and components of metal ships and boats.

**Entry Requirements** a trade qualification.

**Activities include** constructing templates from scale drawings of parts to be fabricated; preparing slipway and blocks for construction of ship or boat; erecting and temporarily securing sections and components; lining off positions for installation of all other equipment by other workers; and laying and caulking decks.

**Related Occupation**

Occupation 6212-E : Shipwright, Wood

**6038-A SHIPWRIGHT, METAL**

Carries out a variety of skilled tasks concerned with the fabrication, erection, fitting-out and repair of metal-hulled ships and boats.

Undertakes any of the following or related tasks. Prepares preliminary sketches or structural parts and sections. Receives full-size detail drawings from drawing office and makes templates accordingly to be fabricated elsewhere; or alternatively contributes to the production of tenth-scale plans of sections which are then cut directly by specially designed automatic flamecutting machines. Studies docking and slipway plans and specifications and prepares dock and slipway accordingly using precision sighting, aligning and measuring instruments. Checks positioning and smooth functioning of slipway apparatus, such as gates and hydraulic-ram gear. Lays keel blocks. Erects, or directs crane driver in the erection of hull sections in dock, aligns sections using hydraulic jack and temporarily secures them by such methods as bolting or tack-welding for boilermakers and welders to join them permanently. Examines detail drawings specifying location of units and accessories such as plates, bulkheads, deck and engine girders, ventilation ducts, masts, derricks, deckhouses and machinery bollards, and progressively lines off all positions in the ship for their installation and fixing by other specialised workers. Erects and prepares launching platforms

and apparatus. Conducts pre-launch inclining experiments. Supervises removal of keel blocks and other launch procedures. Installs a variety of minor fittings, such as gaskets, ladders, handrails, winches, insulation, davits, lifeboats, instrumentation, seating and safety equipment. Prepares surfaces for painting. For repair work, in addition to much of the above, lofts vessel lines onto dock and supervises docking procedures. Examines ship or boat and specifications to determine repair requirements and procedures. Removes and replaces damaged plating, and repairs or replaces other faulty units, fittings or accessories. Checks ballast and water tanks, safety equipment and other apparatus.

May fabricate and/or repair aluminium-hulled boats, except for the actual welding. May, particularly for smaller-scale operations, order materials and/or cost and quote for jobs. May undertake continuing maintenance and repair work as part of ship's crew. May specialise in lofting development, either full-size or tenth-scale, or in lining off units and accessories and be designated accordingly, e.g.

Loftsman/woman

Metal Liner-off

**Job Content Factors**

**Workers**

FP: GE10y PSP4y(T)

IP:

HC: RE1

RQ: D2 V1

<i>Materials</i>		<i>Context</i>	
SM: D2 P2 T1	EQ: P1 S2 M2 W2	EC: L3 C12,07,09	TC: A1 I1 T2
<i>Functions</i>		SS: 4	SC: 9 (vy)
MA: I2 A2 P1 D2 R2 M2 L2		LMS: 1000-1200(0 %SE)	ASIC: 324
PA: P1 U2 C1 H2 W1 B2 E3	SA: S2 L2 B1 R4-3		

6040 METAL SPINNERS

This unit group covers occupations concerned with operating a spinning lathe to "spin" shaped articles from sheet or structural metal.

**Entry Requirements** a trade qualification in metal spinning.

**Activities include** setting up spinning lathe; positioning and securing workpiece; operating machine while varying pressure of workpiece according to type and thickness of metal in order to shape article; and trimming excess material from shaped workpiece.

6040-A METAL SPINNER

Sets up and operates spinning lathe to "spin" shaped articles from sheet or structural metal.

Examines drawings or specifications to determine job requirements and method of operation. Sets up lathe by selecting spinning chuck and securing to spindle, using hand tools. Clamps disc-shaped metal workpiece to chuck and starts machine, ensuring that disc is spinning without eccentricity. Coats disc with spinning compound. Positions forming tool against disc and applies required pressure to disc, either manually or by operating hydraulic controls, in order to form disc into required shape. Varies amount and location of pressure depending on type of metal shape of spinning chuck and dimensions of disc. Resets metalworking tool or changes chuck as necessary. After shaping, replaces forming tool with cutting tool to trim excess material from article. Verifies dimensions of formed article, using precision

measuring instruments such as micrometers and vernier gauges, and modifies as necessary. Sands, planishes or otherwise finishes article.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RA	RQ: D1 V1
<i>Materials</i>	
SM: T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P1 U1 C1 W1 E4	SA: A2 S2 L2
<i>Context</i>	
EC: L1 C09,04,06	TC: A1 I1 R1
SS: 5	SC: 8 (4 y)
LMS: NA (0 %SE)	ASIC: 31

6041 APPRENTICE METAL SHAPING AND FORMING OCCUPATIONS, EXCEPT MACHINING

This unit group covers apprentice occupations in the various metal shaping and forming trades (except machining).

**Entry Requirements** persons in these occupations will normally have satisfied relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

6041-A APPRENTICE BLACKSMITH

Receives instruction and training in the trade of blacksmithing.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
HC: RA	RQ: D2 V1
<b>Materials</b>	
SM: D2 T1	EQ: P2 S1 M1
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: P2 U2 C1 H2 W1 E3	SA: S1 L2
<b>Context</b>	
EC: L1 C01,09,06	TC: A1 I2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 31,32,33

**6041-B APPRENTICE FARRIER**

Receives instruction and training in the duties of a farrier.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
HC: RIE	RQ: Q2 D2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S1 M2
<b>Functions</b>	
MA: A2 D2 R3 M3 L2	
PA: P1 U2 C1 H2 W1 B2 E3	SA: S1 L2 I1 P2
<b>Context</b>	
EC: L4 C01,06	TC: A2 I1 T2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 02,914

**6041-C APPRENTICE SHEET METAL WORKER**

Receives instruction and training in the trade of sheet metal working.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
HC: R1	RQ: V2
<b>Materials</b>	
SM: D2 T1	EQ: P2 S2 M1
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: P1 U2 C1 H2 W1 E3	SA: S2 L2
<b>Context</b>	
EC: L4 C09,04,12	TC: A1
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 31,33

**6041-D APPRENTICE COPPERSMITH**

Receives instruction and training in the trade of coppersmithing.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
HC: RA	RQ: V1
<b>Materials</b>	
SM: D2 T1	EQ: P2 S2 M1
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: P1 U2 C1 H2 W1 E3	SA: S2 L2

**Context**

EC: L4 C09,04	TC: A1
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 31,33

**6041-E APPRENTICE WELDER**

Receives instruction and training in the trade of welding.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
HC: R	RQ: D2 V1
<b>Materials</b>	
SM: D2 T1	EQ: P2 S1 M1 W2
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: P1 U2 C2 H2 W1 E3	SA: S2 L2
<b>Context</b>	
EC: M2 L4 C05,07,02	TC: A1 I2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: Many

**6041-F APPRENTICE METAL FABRICATOR  
Apprentice Boilermaker**

Receives instruction and training in the trade of metal fabricating.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May specialise in structural steel working and be designated accordingly,  
Apprentice Structural Steel Tradesperson

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
HC: RIE	RQ: D2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S1 M2 W2
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: P1 U2 C1 H2 W1 E4	SA: S2 L2
<b>Context</b>	
EC: L4 C09,04,05	TC: A1 I2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 31,32,33

**6041-G APPRENTICE SHIPWRIGHT, METAL**

Receives instruction and training in the trade of metal shipwrighting.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May specialise in duties associated with the fabrication, erection, fitting-out and/or repair of metal hulled, wooden hulled or other ships or boats.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
HC: REI	RQ: D2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S2 M2 W2
<b>Functions</b>	
MA: P2 D3 R3 M3 L3	
PA: P2 U2 C1 H2 W1 B2 E3	SA: S2 L2

<i>Context</i>	
EC: L3 C12,07,09	TC: A1 I1 R2 T2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 324

**6041-H APPRENTICE METAL SPINNER**

Receives instruction and training in the trade of metal spinning.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP:
HC: RA	RQ: D1 V1
<i>Materials</i>	
SM: T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 U1 C1 H2 W1 E4	SA: S2 L2
<i>Context</i>	
EC: L1 C09,04,06	TC: A1 I1 R1
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 31

**6049 OTHER METAL SHAPING AND FORMING MACHINE OPERATORS**

This residual unit group covers occupations concerned with operating machines to shape and form metal not elsewhere classified.

**Activities include** positioning and securing workpiece on machine; operating machine to shape and form workpiece; and trimming, filing or otherwise finishing shaped articles.

*Related Occupations*

- Unit Group 6033 : Sheet Metal Non-Trade Occupations
- Occupation 6082-F : Process Worker, Machine Operation (Metal)

**6049-A METAL SHAPING AND FORMING MACHINE OPERATOR**

Sets up and/or operates repetitively any of metalworking machines not elsewhere included which mangle, nip, notch, roll, punch, crop, drill, ream, tap, bend or otherwise shape and form structural metal.

Undertakes any of the following or similar tasks. Studies work order or other specifications to determine job requirements. Sets up machine by installing shaping tool and manipulating controls or attachments. Positions and secures workpiece in machine fixtures, using hand tools. Tends machine by operating hand and foot controls to shape and form workpiece. Removes workpiece, checks visually or using measuring instruments and finishes with file, knife or abrasive paper. Undertakes incidental duties to assist tradespersons or other workers.

May, if operating a machine to shape and form metal for use in steel construction, be designated accordingly or may be designated by type of machine operated, e.g.

Bending Machine Operator    Rolling Machine Operator

Second Class Machinist (Steel Construction)  
Springmaking Machine Operator

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T3-12m
HC: R	RQ: D2 V1
<i>Materials</i>	
SM: T1	EQ: S2 M1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: P2 U1 C1 S2 W2 E2	SA: L1
<i>Context</i>	
EC: L1 C09,04	TC: A1 I1 R1
SS: 3	SC: 5 (7 y)
LMS: NA (0 %SE)	ASIC: 31,32,33,34

**6049-Z METAL SHAPING AND FORMING MACHINE OPERATORS nec**

This residual group covers occupations concerned with operating machines to shape and form metals, not elsewhere classified in Unit Group 6049.

**MINOR GROUP 605**  
**METAL FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING**  
**OCCUPATIONS**

Metal Fabricating, Assembling, Maintaining and Repairing Occupations are classified in the following unit groups.

- 6050 Supervisors/Foremen/women, Metal Fabricating, Assembling, Maintaining and Repairing Occupations
- 6051 Aircraft Ground Engineers
- 6052 Vehicle Mechanics
- 6053 Panel Beaters
- 6054 Vehicle Painters
- 6055 Vehicle Body Making Occupations
- 6056 Apprentice Metal Fabricating, Assembling, Maintaining and Repairing Occupations
- 6059 Other Metal Fabricating, Assembling, Maintaining and Repairing Occupations

**6050 SUPERVISORS/FOREMEN/WOMEN, METAL FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS**

This unit group covers occupations not elsewhere classified concerned with fabricating, assembling, maintaining and repairing metal products.

**Entry Requirements** a relevant trade qualification plus 4-8 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**6050-A SUPERVISOR/FOREMAN/WOMAN, AIRCRAFT FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS**

Supervises and co-ordinates activities of workers engaged in maintaining and repairing aircraft engines, sub-assemblies and related systems, or in fitting, maintaining and repairing components and sub-assemblies of aircraft frames.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

*Job Content Factors*

<i>Workers</i>	
FP: GE10-12y PSP4y(T)	IP: T6-24m E5-8y
HC: RIC	RQ: S1 U1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S1 M2 V2
<i>Functions</i>	
MA: I2 A1 P1 D1 R2 M2 L2	
PA: P2 U2 C2 S2 W2 B2 E3	SA: S2 L2 B1 R3-4

*Context*

EC: L1 C07,04,09	TC: A1 I2 T2
SS: 9	SC: I0 (3 y)
LMS: NA (0 %SE)	ASIC: 324

**6050-B SUPERVISOR/FOREMAN/WOMAN, AUTOMOBILE FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS**

Supervises and co-ordinates activities of workers engaged in maintaining and repairing vehicle engines.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Supervises and co-ordinates workers engaged in repairing or replacing and spray-painting damaged vehicle body panels; installing, repairing and replacing vehicle upholstery; building or repairing bodies for specialised or custom-built vehicles and motor vehicle assembly including assembly and installation of items such as doors, seats, trim, electrical wiring, lights, engines, gear boxes, differentials etc. in vehicles such as cars, trucks, buses and tractors.

**Job Content Factors****Workers**

FP: GE10-11y PSP4-5y(T)

IP: T2-4m E4-6y

HC: RIE

RQ: L2 S2 U2 D1 V1 A2

**Materials**

SM: D2 P2 T1

EQ: P2 S2 M2 V2

**Functions**

MA: A2 P1 D2 R2 M2 L2

PA: P1 U2 C2 S2 W2 E3

SA: S2 L2 I2 B1 R3-4

**Context**

EC: L1 C09,07

TC: A1 I2 T2

SS: 8

SC: 9 (3 y)

LMS: NA (0 %SE)

ASIC: 323

**6050-Z****SUPERVISORS/FOREMEN/WOMEN,  
METAL FABRICATING, ASSEMBLING,  
MAINTAINING AND REPAIRING  
OCCUPATIONS nec**

The residual group covers supervisors/foremen/women of metal fabricating, assembling, maintaining and repairing occupations not elsewhere classified in Unit Group 6050, e.g. those concerned with supervising and co-ordinating activities of workers engaged in fabricating, assembling, maintaining, repairing and/or installing a range of products manufactured primarily of metal and generally of a mechanical nature, such as saws, locks, watches, clocks, guns, typewriters, precision instruments, lawnmowers, sewing machines, bicycles and hand tools.

**6051 AIRCRAFT GROUND ENGINEERS**

This unit group covers occupations concerned with the maintenance, service and repair of aircraft engines, sub-assemblies and related systems, or the fitting, assembling, maintenance and repair of the components and sub-assemblies of airframes.

**Entry Requirements** a trade qualification plus, in some cases, an appropriate licence.

**Activities include** removing and dismantling engines; inspecting and testing engine components; reassembling and testing engines; conducting pre-flight inspections; assembling airframe parts; checking alignments, clearances and quality of finish; dismantling and inspecting components and systems; replacing or repairing worn and damaged parts; reassembling and test-operating systems and sub-assemblies; and maintaining records.

**Related Occupations**

Unit Group 6103 : Electrical Mechanics Occupations

Occupation 6111-A : Communications Equipment Tradesperson

**6051-A****AIRCRAFT GROUND ENGINEER,  
ENGINES****Aircraft Engine Fitter; Aircraft Maintenance  
Engineer, Engines; Aircraft Mechanic,  
Engines**

Maintains, overhauls and repairs aircraft engines, sub-assemblies and related systems.

Removes or supervises the removal of engine from aircraft after prescribed elapsed or operating periods, using hand tools and hoisting equipment. After its transport to workshop, dismantles engine following prescribed sequence, using hand tools specified by manufacturers. Rectifies minor faults such as replacement of bushings or smoothing of nicks and burrs. Sends items requiring major repair to machine shop, welding shop or other support facility as required. Inspects and tests components, using sophisticated test instruments including X-ray and ultrasonic equipment, and rectifies them as necessary. Reassembles according to prescribed sequence and reinspects at various stages, checking specifications such as clearances, gear movements and nut and bolt torques with the aid of precision measuring and testing instruments. Submits engine to final test in specially designed test facility and adjusts as required. Treats with anti-corrosion agent. Arranges dispatch of overhauled engine to customer or, especially if employed by airline, stores engine to be substituted at a later date for another requiring overhaul. Also services auxiliary motors and engine accessories such as generators, starters and thermocouples. Conducts routine pre-flight engine inspections at airport. Maintains records of action taken.

May specialise in the overhaul of propeller, turbo-prop or gas turbine (jet) engines. May, if specialising in the servicing of helicopter engines and related systems, be designated, Helicopter Mechanic

**Job Content Factors****Workers**

FP: GE10y PSP4y(T)

IP:

HC: RIC

RQ: S2 Q2 U1 V1

**Materials**

SM: D2 P2 T1

EQ: P1 S1 M2 V2

**Functions**

MA: I2 A1 P1 D2 R2 M2 L2

PA: P1 U2 C2 H2 W1 B1 E3

SA: S1 L2 B1 R4

**Context**

EC: L1 C04,07,09

TC: A1 I2

SS: 7

SC: 10 (4 y)

LMS: NA (5 %SE)

ASIC: 324

**6051-B****AIRCRAFT GROUND ENGINEER,  
AIRFRAMES****Aircraft Mechanic, Airframes; Airframe  
Fitter; Airframe Mechanic**

Fits and assembles and/or maintains and repairs components and sub-assemblies which comprise aircraft frame.

Positions parts and sub-assemblies, such as fuselage, wing or tail components, fuel tanks, landing gear, safety systems and internal fittings, on working surface, part-assembled airframe or assembly jig, often with the aid of hoisting apparatus. Lays

out and marks reference points or guidelines and aligns parts, using precision measuring instruments. Assembles parts and sub-assemblies by drilling, bolting, screwing, rivetting, dowelling, binding, filing, cutting, brazing and soldering, using hand and power tools and equipment such as drills, rivet guns, spanners, knives, wrenches, files and soldering equipment. Supervises welding together of relevant components. Verifies alignments, clearances and quality of finish after final assembly, both by visual inspection and using measuring instruments, and rectifies as necessary. Periodically maintains and overhauls aircraft systems and sub-assemblies, in accordance with established maintenance schedule and to rectify defects or malfunctions recorded by test or operating flight crew. Dismantles relevant sub-assemblies using hand tools, and checks parts for wear using measuring instruments and test apparatus designed to simulate flying conditions. Replaces, repairs or supervises the repair of worn and damaged parts. Traces and checks fuel and oil lines, control cables and other aircraft systems. Reassembles components and checks for operating efficiency. Conducts routine pre-flight aircraft inspections. Maintains records of action taken.

May, if specialising in the maintenance and repair, rather than the initial fitting and assembly, of airframes, be designated Aircraft Maintenance Engineer, Airframes

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RIC	RQ: S2 Q2 U1 V1
<i>Materials</i>	
SM: D2 T1	EQ: P1 S1 M2
<i>Functions</i>	
MA: A2 P1 D2 R3 M2 L2	
PA: P1 U2 C1 H2 W1 B2 E3	SA: S1 L2 B1 R4
<i>Context</i>	
EC: L1 C04,07,09	TC: A1 I2
SS: 7	SC: 10 (4 y)
LMS: NA (5 %SE)	ASIC: 324

6051-C AIRCRAFT ENGINEER, LINE MAINTENANCE

Services aircraft by performing one or more of a number of technical functions necessary to enable the aircraft to continue operating.

Consults with pilot or flight engineer on performance of aircraft during flight, rectifies any problems or checks equipment suspected of malfunctions. Inspects engines and airframe to ensure routine maintenance is completed. Oversees supply of fuel to aircraft, checks airframe working parts to ensure reliability, and liaises with other tradespersons and technical personnel to complete service during stops.

May perform servicing when aircraft is out of operation for regular overhaul. May certify aircraft has been maintained in accordance with approved maintenance instruction manual and that aircraft is airworthy, and be designated accordingly, Licensed Aircraft Maintenance Engineer

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RIC	RQ: S2 Q2 U1 V1
<i>Materials</i>	
SM: D2 T1	EQ: P1 S1 M2

Functions

MA: A2 P1 D2 R3 M2 L2	
PA: P1 U2 C1 H2 W1 B2 E3	SA: S1 L2 B1 R4
<i>Context</i>	
EC: L1 C04,07,09	TC: A1 I2
SS: 7	SC: 10 (4 y)
LMS: NA (0 %SE)	ASIC: 324

6051-D AIRCRAFT INSPECTOR

Applies involved testing and inspecting methods to components and sub-assemblies of aircraft under manufacture, or to aircraft and their components during service and repair.

Visually inspects aircraft parts and sub-assemblies for defects such as inferior appearance, poor assembly or missing parts. Using precision measuring and testing instruments, verifies dimensions and alignment of parts, location and quality of joins, whether by rivetting, welding, bolting, glueing or otherwise connecting, and correcting installation of fittings such as seats, internal trim and catering facilities. Traces and checks fuel and oil lines, control cables and safety systems such as emergency oxygen supply. Test-operates landing gear, wing flaps and other functional systems. Examines airframe during and after assembly for surface defects such as misalignments or cracks. Where necessary, supervises dismantling of relevant sub-assemblies, rectification of defects noted and reassembly. Rechecks rectification work until satisfied. Maintains detailed record of defects detected and action taken and certifies it accordingly. Conducts initial examination of aircraft for evidence of deterioration, such as corrosion, fatigue, wearing of moving parts and damage to aircraft skin, and recommends appropriate repair work. Inspects components and sub-assemblies during repair or service to ensure that work is carried out to specifications and to detect cracks, splits and other damage. Checks alignment of and clearances between components, using precision measuring instruments. Tests tightness of airframe connections, using hand tools. Test-operates mechanical systems, such as wing and tail flaps, landing gear and hydraulic units, and supervises adjustments as necessary. Sends suspect components for further testing. Examines worksheets and other records to ensure that prescribed inspection, maintenance and repair work have been carried out, and certifies them accordingly.

May be required to examine aircraft wreckage or vital components which fail during flight to determine causes of malfunctions. May specialise in the inspection of particular aircraft systems and be designated accordingly, e.g.

Aircraft Engine Inspector      Aircraft Hydraulics Inspector  
Airframe Inspector              Avionics Inspector

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: T2-3m E2-3y
HC: IRE	RQ: S1 U1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: I2 A1 P2 D2 R2 M2 L2	
PA: P1 C1 S2 W2 E3	SA: S2 L2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 10	SC: 10 (4 y)
LMS: NA (0 %SE)	ASIC: 324

## 6052 VEHICLE MECHANICS

This unit group covers occupations concerned with such activities as maintenance and repair of vehicle engines, transmission, fuel system, induction system and braking system.

**Entry Requirements** a trade qualification in vehicle mechanics or, in some cases, 6 years' experience.

**Activities include** testing, tuning, servicing, repairing and overhauling mechanical components in vehicles.

### *Related Occupations*

Occupation 6023-B : Maintenance Fitter

## 6052-A MOTOR MECHANIC

Maintains, repairs and tests motor vehicles and/or their parts and sub-assemblies.

Undertakes some or all of the following tasks. Diagnoses faults by such methods as discussing symptoms with vehicle operator, listening to engine, observing exhaust smoke, fitting and operating specialised test equipment and test-driving vehicle. Removes assemblies such as engine, transmission or differential, using hand tools and lifting equipment. Dismantles faulty assembly and checks parts such as valves, rods, pistons, gears and bearings, using hand tools, precision measuring equipment and, where necessary, workshop manuals. Repairs or replaces worn and defective parts, reassembles, tests and adjusts system and reinstalls in vehicle. Tunes engine to achieve smoother running and ensure compliance with air and noise pollution regulations, using electronic and other test equipment. Relines and adjusts brakes. Aligns front end. Replaces worn shock absorbers. Changes oil, oil filter and air filter. Lubricates vehicle. Inspects vehicles and issues roadworthiness certificates or details work required to achieve roadworthiness.

May also work on diesel or, if suitably licensed, liquid-petroleum-gas-powered vehicles. May specialise in a particular kind of engine or sub-assembly and be designated accordingly, e.g.

Automotive Air Conditioning Mechanic  
Chainsaw Mechanic      Lawnmower Mechanic  
Marine Engine Mechanic      Motorcycle Mechanic

### *Job Content Factors*

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RIS	RQ: L1 S2 U2 D1 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M2 V2
<i>Functions</i>	
MA: A2 P2 D2 R2 M2 L2	
PA: P1 U2 C2 W1 E3	SA: S1 L2 I2 P2 B2 R4
<i>Context</i>	
EC: L1 C09,07,06	TC: A1 I2
SS: 5	SC: 5 (vy)
LMS: 52000 (5 %SE)	ASIC: 323

## 6052-B DIESEL MOTOR MECHANIC Diesel Mechanic

Maintains, repairs and tests diesel-powered vehicles, plant and equipment and/or their parts and sub-assemblies.

Performs duties similar to those of 6052-A MOTOR MECHANIC or 6023-B MAINTENANCE FITTER, but specialising in diesel-powered vehicles, plant and equipment.

### *Job Content Factors*

<i>Workers</i>	
FP: GE10y PSP4-5y(T)	IP:
HC: RIS	RQ: L1 S2 U2 D1 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M2 V2
<i>Functions</i>	
MA: A2 P2 D2 R2 M2 L2	
PA: P1 U2 C2 W1 E3	SA: S1 L2 I2 P2 B2 R4
<i>Context</i>	
EC: L1 C09,07,06	TC: A1 I2
SS: 5	SC: 5 (vy)
LMS: 52000 (5 %SE)	ASIC: 323

## 6052-C BRAKE MECHANIC Brake Fitter

Diagnoses, repairs or replaces, overhauls and tests under jobbing conditions the mechanical parts of disc, drum or power brake systems used on automotive vehicles.

Determines faults in brake system by test driving vehicle noting performance and by discussion with vehicle operator. Raises axle of automotive vehicle, using hydraulic jack or hoist. Removes wheels, using pneumatic wrench, and brake drums, using wheel puller and sledge-hammer. Examines brake shoe units for wear and damage, and repairs or renews as required. Measures brake drum for excessive wear, using gauge. Inserts vacuum gauge into power brake cylinders to ensure vacuum pressure is at specified level. Repairs or replaces leaky brake cylinders. Applies knowledge of oversizing, and machines disc and drum brakes where indicated, converting metric to imperial units and vice versa. Replaces wheel on axle and adjusts drum-shoe clearance, using wrench. Fills master-brake cylinder with brake fluid, pumps brake pedal, or uses pressure tank, and opens valves on hydraulic-brake system to bleed air from brake lines. Closes valves, and refills master-brake cylinder.

May attach new linings to brake shoes by bonding or rivetting. May specialise in air-brake systems which operate on compressed air and be designated,

Truck Fitter

### *Job Content Factors*

<i>Workers</i>	
FP: GE10y PSP4-5y(T)	IP:
or FP: GE NFR	IP: E6y
HC: RIS	RQ: L1 S2 U2 D1 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M2 V2
<i>Functions</i>	
MA: A2 P2 D2 R2 M2 L2	
PA: P1 U2 C2 W1 E3	SA: S1 L2 I2 P2 B2 R4

<i>Content</i>	
EC: L1 C09.07.06	TC: A1 I2
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 323

6053 PANEL BEATERS

This unit group covers occupations concerned with the finishing and repairing of vehicle bodies.

**Entry Requirements** a trade qualification in panel beating.

**Activities include** studying manuals and specifications; dismantling or removing engines, panels, seats or other components; and repairing or replacing defective parts.

6053-A PANEL BEATER

Repairs damage to sheet metal body work on vehicles such as cars, buses, trucks and caravans, making panels or mudguards from sheet by hand or partly by hand and partly with the aid of machines.

Removes damaged panels and parts or removes upholstery and accessories to gain access to damaged areas. Places specially shaped metal tools against surface of dented area and pounds opposite surface with hammer to remove dents. Straightens badly damaged vehicles using mechanical and hydraulic equipment. Fills depressions with plastic filler and files, grinds and sands repaired surfaces using power and hand tools.

May assist vehicle body builders in the construction of custom designed or specialty vehicles.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RIC	RQ: L1 D1 V1
<i>Materials</i>	
SM: D2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: A2 D2 R3 M3 L2	
PA: P1 U2 C1 H2 W1 E3	SA: S2 L2 I2 B2 R4
<i>Context</i>	
EC: L1 C09	TC: A1 I2
SS: 5	SC: 5 (vy)
LMS: 15000 (10%SE)	ASIC: 323

6054 VEHICLE PAINTERS

This unit group covers occupations concerned with vehicle painting.

**Entry Requirements** a trade qualification in vehicle painting.

**Activities include** preparing surface of vehicles, applying prime and finish coats; mixing, matching and applying finish coats of paint using spray gun.

6054-A VEHICLE PAINTER  
Spray Painter (Vehicle)

Prepares surface of vehicles, applies prime and finish coats, mixes, matches and applies finish coats of paint using spray gun.

Removes rough spots using file or chisel. Sands surface by hand or with an electric sander. Covers areas not to be painted with masking tape and paper. Mixes paints to obtain specified colour or selects specified premixed paint. If spraying only a section of vehicle, mixes paints to match existing paintwork. Applies finish coats and rubs down surface between coats. Waxes and polishes finished paintwork.

May paint signs or artwork on vehicles. May paint aircraft surfaces and be designated accordingly,  
Aircraft Spray Painter

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: R1A	RQ: L1 D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 U2 C1 W1 E3	SA: S1 L2 I2 B2 R4
<i>Context</i>	
EC: L1 C02	TC: A1 I2
SS: 5	SC: 5 (vy)
LMS: 7000 (10%SE)	ASIC: 323,324

6055 VEHICLE BODY MAKING OCCUPATIONS

This unit group covers occupations concerned with other vehicle trades, such as vehicle trimming and body making.

**Entry Requirements** a trade qualification in vehicle body making or trimming.

**Activities include** installing, repairing and replacing the interior trim of vehicles used for seats, linings, floor coverings, arm rests, door trims etc; and manufacturing and repairing specialised vehicle bodies such as buses, fire engines and caravans.

6055-A VEHICLE TRIMMER  
Vehicle Upholsterer

Installs, repairs and replaces the interior trim of vehicles used for seats, linings, floor coverings, arm rests, door trims etc.

Measures and cuts out pieces of fabric, vinyl, leather, etc. using shears or electrical cutting tools. Sews pieces together using heavy duty sewing machine and installs in vehicle. Attaches door trims, rubber seals, locks, handles etc.

May perform developmental work. May work on trim of boats, ships or aircraft and be designated accordingly, e.g.  
Aircraft Trimmer Ship's Upholsterer

Job Content Factors

Workers	
FP: GE10y PSP4y(T)	IP:
HC: RA	RQ: L1 V1
Materials	
SM: D2 T1	EQ: S1 M1
Functions	
MA: P2 D2 R3 M2 L2	
PA: P1 U2 C1 W1 E2	SA: S1 L2 B2 R4
Context	
EC: L1 C07,09	TC: A1 I1 R2
SS: 4	SC: 4 (vy)
LMS: 4000 (10%SE)	ASIC: 323,324

6055-B BODY MAKER, FIRST CLASS  
Vehicle Body Builder

Manufactures and repairs specialised vehicle bodies such as

buses, fire engines and caravans.

Studies blueprints, drawings, specifications etc. Constructs framework sections without the aid of jigs in wood and/or substitute materials (e.g. fibreglass) but normally in metal, using stretching and shrinking machinery and welding equipment. Bolts, screws, rivets or welds sections together to form complete framework. Cuts, shapes and attaches panels of sheetmetal, aluminium, reinforced plastic etc. to framework using hand and power tools.

May supervise tradespersons such as panel beaters, sheetmetal workers, welders and trimmers who assist in body making. May alter assembly line vehicles to special requirements, e.g. ambulances.

Job Content Factors

Workers	
FP: GE10y PSP4y(T)	IP:
HC: RCI	RQ: V1
Materials	
SM: D2 T1	EQ: P1 S2 M1
Functions	
MA: P2 D2 R3 M2 L2	
PA: P1 U2 C2 W1 E3	SA: S2 L1 B2 R4
Context	
EC: L1 C09,04	TC: A1 I2
SS: 5	SC: 9 (4 y)
LMS: 2000 (0 %SE)	ASIC: 323

6056 APPRENTICE METAL FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS

This unit group covers apprentice occupations in trades concerned with the fabrication, assembling, maintenance and repair of various metal products.

**Entry Requirements** persons in these occupations will normally have satisfied relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** those described under Master Title APPRENTICE.

**6056-A APPRENTICE AIRCRAFT GROUND ENGINEER, ENGINES**

Receives instruction and training in the duties of an aircraft engines ground engineer.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP:
HC: RIC	RQ: Q2 U1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S1 M2 V2
<i>Functions</i>	
MA: I2 A2 P2 D3 R3 M3 L3	
PA: P1 U2 C2 H1 W1 B1 E3	SA: S1 L2
<i>Context</i>	
EC: L1 C04,07,09	TC: A1 I2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 324

**6056-B APPRENTICE AIRCRAFT GROUND ENGINEER, AIRFRAMES**

Receives instruction and training in the duties of an aircraft airframes ground engineer.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP:
HC: RIC	RQ: Q2 U1 V1
<i>Materials</i>	
SM: D2 T1	EQ: P1 S1 M2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L3	
PA: P1 U2 C1 H2 W1 B2 E3	SA: S1 L2
<i>Context</i>	
EC: L1 C04,07,09	TC: A1 I2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 324

**6056-C APPRENTICE MOTOR MECHANIC**

Receives instruction and training in the trade of motor mechanics.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP:
HC: RIS	RQ: L1 S2 U2 D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M2 V2
<i>Functions</i>	
MA: A2 D3 R3 M3 L3	
PA: P1 U2 C2 W1 E3	SA: S1 L2 I2
<i>Context</i>	
EC: L1 C09,07,06	TC: A1 I2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 323

**6056-D APPRENTICE BRAKE MECHANIC**

Receives instruction and training in the trade of motor mechanics (brake).

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP:
HC: RIS	RQ: L1 S2 U2 D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M2 V2
<i>Functions</i>	
MA: A2 D3 R3 M3 L3	
PA: P1 U2 C2 W1 E3	SA: S1 L2 I2
<i>Context</i>	
EC: L1 C09,07,06	TC: A1 I2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 323

**6056-E APPRENTICE PANEL BEATER**

Receives instruction and training in the trade of panel beating.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP:
HC: RIC	RQ: L1 D1 V1
<i>Materials</i>	
SM: D2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: A2 D3 R3 M3 L3	
PA: P1 U2 C1 H2 W1 E3	SA: S2 L2 I2
<i>Context</i>	
EC: L1 C09	TC: A1 I2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 323

**6056-F APPRENTICE VEHICLE PAINTER  
Apprentice Spray Painter (Vehicle)**

Receives instruction and training in the trade of vehicle painting.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP:
HC: R1A	RQ: L1 D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: A2 D2 R3 M3 L3	
PA: P1 U2 C1 W1 E3	SA: S1 L2 I2
<i>Context</i>	
EC: L1 C02	TC: A1 I2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 323,324

**6056-G APPRENTICE VEHICLE TRIMMER**

Receives instruction and training in the trade of vehicle trimming.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP:
HC: RA	RQ: L1 V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 M1
<i>Functions</i>	
MA: D3 R3 M2 L3	
PA: P1 U2 C1 W1 E2	SA: S2 L2

*Context*

EC: L1 C07,09

TC: A1 I1 R2

SS: 1

SC: 3 (3 y)

LMS: NA (0 %SE)

ASIC: 323,324

**6056-H APPRENTICE BODY MAKER**  
**Apprentice Vehicle Body Builder**

Receives instruction and training in the trade of vehicle body making.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors**Workers*

FP: GE10y

IP:

HC: RCI

RQ: V1

*Materials*

SM: D2 T1

EQ: P1 S2 M1

*Functions*

MA: D3 R3 M3 L3

PA: P1 U2 C2 W1 E3

SA: S2 L2

*Context*

EC: L1 C09,04

TC: A1 I2

SS: 1

SC: 3 (3 y)

LMS: NA (0 %SE)

ASIC: 323

**6059 OTHER METAL FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS**

This residual unit group covers occupations concerned with the fabrication, assembly, installation, modification, maintenance and/or repair of a range of products manufactured primarily of metal and generally of a mechanical nature which are not elsewhere classified.

**Activities include** maintaining and repairing lawnmowers, outboard motors, sewing machines, vending machines, bicycles, hand tools or similar machines and equipment.

*Related Occupations*

Unit Group 6102

: Electrical Fitters

**6059-A SERVICEMAN/WOMAN, MECHANICAL EQUIPMENT**

Maintains and repairs one or more of a range of machines which, though generally electrically or electronically activated, are of a primarily mechanical nature and are not elsewhere classified.

Studies product manual or specifications, examines machine or consults customer to determine likely cause of malfunction. Dismantles article, using hand tools such as spanners, screwdrivers and wrenches, and examines components. Repairs or replaces faulty parts by, for example, renewing worn bearings, realigning cogs, soldering cracked or broken housings, replacing sheared bolts or broken springs, overhauling coin mechanism, replacing faulty wiring, checking prescribed clearance or lubricating moving parts. Reassembles, test-operates and adjusts as necessary.

May be designated according to the type of machine serviced, e.g.

Poker Machine Mechanic      Sewing Machine Mechanic  
Vending Machine Serviceman/woman

*Job Content Factors**Workers*

FP: GE9-10y

IP: T6-12m E6m

HC: RIC

RQ: U2 D1 V1 A2

*Materials*

SM: D1 P2 T1

EQ: P2 S1 M2

*Functions*

MA: A2 D2 R3 M3 L3

PA: P2 U1 C2 W1 E3

SA: S2 L2 I2

*Context*

EC: L1 C07

TC: A1 I1

SS: 4

SC: 8 (4 y)

LMS: NA (20%SE)

ASIC: 31,33,34

**6059-Z METAL FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS nec**

This residual group covers occupations concerned with the fabrication, assembly, installation, modification, maintenance and repair of a range of products manufactured primarily of metal and generally of a mechanical nature, which are not elsewhere classified, e.g.

Bicycle Repairer      Hand Tool Repairer  
Knife Sharpener      Tyre and Tube Fitter  
Wheel Balancer  
Tyre and Tube Repairer (Minor Repairs Only)

**MINOR GROUP 606**  
**PRECISION INSTRUMENT, JEWELLERY AND SILVERWARE WORKING**  
**OCCUPATIONS**

Precision Instrument, Jewellery and Silverware Working Occupations are classified in the following unit groups.

- 6060 Supervisors/Foremen/women, Precision Instruments, Jewellery and Other Metal Products
- 6061 Precision Instruments Fabricating, Assembling, Maintaining and Repairing Occupations
- 6062 Specialised Fabricating, Assembling, Maintaining and Repairing Occupations
- 6063 Jewellery and Precious Metalware Fabricating, Assembling, Maintaining and and Repairing Trade Occupations
- 6064 Apprentice Precision Instruments, Jewellery and Other Metal Products Occupations

**6060 SUPERVISORS/FOREMEN/WOMEN, PRECISION INSTRUMENTS, JEWELLERY AND OTHER METAL PRODUCTS**

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in the fabrication, assembly, maintaining and repairing of precision instruments, including office mechanical equipment, watches and clocks, locks, saws and guns; and jewellery and silverware products.

**Entry Requirements** a trade qualification and 4-8 years' experience.

**Activities include** those described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**6060-A SUPERVISOR/FOREMAN/WOMAN, PRECISION AND OTHER INSTRUMENTS**  
**Supervisor, Instrument Fitter**

Supervises and co-ordinates the activities of workers engaged in the fabricating, assembling, maintaining and repairing of precision instruments, including office mechanical equipment, watches, clocks, locks, saws and guns.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: T2m E5-8y
HC: RIE	RQ: U2 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S2 M2
<i>Functions</i>	
MA: I2 A2 P1 D2 R2 M2 L2	
PA: P1 C2 S2 W2 E2	SA: S2 L2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 T2
SS: 8	SC: 9 (3 y)
LMS: NA (0 %SE)	ASIC: 33

**6060-B SUPERVISOR/FOREMAN/WOMAN, JEWELLERY AND SILVERWARE OCCUPATIONS**

Supervises and co-ordinates the activities of workers engaged in the fabricating, assembling, maintaining and repairing of jewellery and silverware products, including cutting, polishing and setting precious and semi-precious stones; silver-plating and polishing trophies and other products.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: T2m E4-6y
HC: RAE	RQ: V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: I2 A2 P1 D2 R2 M2 L2	
PA: P1 C2 S2 W2 E2	SA: S2 L2 I2 B1 R3-4
<i>Context</i>	
EC: L1 C09	TC: A1 T2
SS: 8	SC: 9 (3 y)
LMS: NA (0 %SE)	ASIC: 348

**6061   PRECISION INSTRUMENTS FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS**

This unit group covers occupations concerned with the fabrication, assembly, calibration, installation, modification, maintenance and/or repair of a range of precision instruments and equipment manufactured primarily of metal.

**Entry Requirements** a trade qualification in an appropriate area.

**Activities include** determining customers' requirements; designing systems; fitting and assembling parts and sub-assemblies; fabricating components, using hand and power tools and machines; dismantling articles; repairing or replacing defective parts; reassembling and test-operating equipment and adjusting as necessary; and maintaining records.

*Related Occupations*

- Occupation 6103-B
- Unit Group 6102
- Occupation 6412-B
- : Aircraft Electrical Mechanic
- : Electrical Fitters
- : Optical Mechanic

**6061-A           PRECISION INSTRUMENT MAKER AND REPAIRER**  
**Industrial Instrument Mechanic; Instrument Maker/Fitter/Repairer/Mechanic; Scientific Instrument Maker**

Assembles, calibrates, installs and overhauls a wide range of precision instruments and equipment of a primarily mechanical nature, and designed for a variety of purposes which include measuring, recording, viewing, regulating and monitoring.

Undertakes a range of tasks such as the following. Fits and assembles instrument parts and sub-assemblies such as springs, valves, plates, bearings, lenses and glass faces, using hand tools, measuring instruments and magnifying aids. Calibrates instruments, using standard weights and measures, jigs and fixtures, hand tools to adjust and align parts and small balancing weights. Installs industrial instruments and equipment, such as control panels, meters and fixed cameras. Periodically, or following reports of malfunctioning, overhauls instruments and equipment either on site or (more commonly) in the workshop. Dismantles instruments, repairs or replaces defective parts using hand and power tools. Occasionally reassembles and test-operates metal cutting machines. Monitors performance relative to specifications, using testing and measuring instruments, and adjusts as necessary. Records action taken.

May specialise in the type of instruments worked on, such as coin meters, meteorological instruments, thermostatic control systems, cameras, medical equipment, pressure-control devices, tradesperson's precision gauges or scales, and be designated accordingly, e.g.

- Meter Mechanic
- Camera Repairer
- Scalemaker
- Scalemaker and Adjustor

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
HC: RIA	RQ: V1
<b>Materials</b>	
SM: D2 T1	EQ: P1 S2 M2
<b>Functions</b>	
MA: A2 P2 D2 R3 M3 L2	
PA: P1 U2 C1 S1 W2 E2	SA: S1 L2 B2 R4

<b>Context</b>	
EC: L1 C07	TC: A1 R2
SS: 6	SC: 9 (vy)
<b>LMS: 6000-7000(\$ %SE)</b>	
<b>ASIC: 33</b>	

**6061-B           OFFICE MECHANICAL EQUIPMENT SERVICEMAN/WOMAN**  
**Business Equipment Mechanic; Office Machine Mechanic**

Services and repairs typewriters, calculating, adding and bookkeeping machines, cash registers and other commercial and office machines which, though they may be electrically or electronically activated, are of a primarily mechanical nature.

Examines and operates machine, and consults customer to determine likely cause of malfunction. Disassembles machines, using hand tools such as spanners and screwdrivers, and examines components. Where necessary, repairs or replaces defective parts by, for example, adjusting carriage, aligning type, replacing worn type faces, renewing springs or ratchets, lubricating moving parts, replacing broken pinions or soldering cracked frame, using hand tools, measuring instruments and soldering equipment. Reassembles machine, test-operates and adjusts as necessary.

May undertake routine work on electrical or electronic components by repairing or replacing faulty parts or wiring, using electrical and electronic testing equipment and hand tools. May specialise in the type of commercial or office equipment serviced and repaired and be designated accordingly, e.g.

- Cash Register Repairer
- Photocopier Mechanic
- Reprographic Equipment Repairer
- Typewriter Mechanic

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE10y	IP: T3-4y
HC: RIS	RQ: L1 U2 V1 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: P1 S2 M2
<b>Functions</b>	
MA: A2 D2 R3 M3 L2	
PA: P1 U1 C1 S2 W2 E3	SA: S1 L2 I1 B2 R4

## Context

EC: M2 L1 C10  
SS: 5

TC: A1 I2 T2  
SC: 8 (4 y)

LMS: NA (10%SE)

ASIC: 33

### 6061-C WATCH AND CLOCK REPAIRER Watchmaker

Repairs, cleans and adjusts watches, clocks and time recorders, such as stop watches, which are mechanically and/or electronically controlled.

Consults customer and examines timepiece to determine source of malfunction. Dismantles item, using hand tools such as screwdrivers and tweezers and (in most cases) magnifying aids. Disassembles mechanism. Removes and repairs or replaces defective parts such as balance staff, jewel bearings, screws or hairspring, using hand tools and specially designed machines such as watchmaker's lathe and electronic timing machine. Tests circuits in electronic watch or clock, using

electronic testing equipment circuit, diagnoses faults, and repairs or replaces as necessary. Reassembles, fits and adjusts parts as required to ensure smooth operation; lubricates moving parts and demagnetises mechanism. Replaces glass face if scratched or cracked. Sets and checks timing.

## Job Content Factors

## Workers

FP: GE10y PSP4y(T)  
HC: RIA

IP:  
RQ: V1 A2

## Materials

SM: D2 P2 T1

EQ: P1 S1 M2

## Functions

MA: A2 P2 D2 R3 M3 L2  
PA: P1 C1 S1 E2

SA: S1 L2 I2 B2 R4

## Context

EC: L1 C07  
SS: 4

TC: A1 I2  
SC: 8 (4 y)

LMS: NA (50%SE)

ASIC: 33

## 6062 SPECIALISED FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING OCCUPATIONS

This unit group covers occupations concerned with the fabrication, assembly, modification, maintenance, and repair of instruments manufactured primarily of steel.

**Entry Requirements** a trade qualification in a relevant area or, in some cases, Year 10 plus 2 years' experience.

**Activities include** providing and maintaining locks and related security services; fabricating, repairing, setting and sharpening blades for circular, band and other power saws; and modifying, servicing and repairing rifles, revolvers and other small arms.

### 6062-A LOCKSMITH

Provides and maintains locks and related security services.

Undertakes any of the following tasks. Determines customer's security requirements by consultation and examination of premises. Designs or recommends appropriate system, such as safe, strongroom, master key system, alarms or door and window locks. Fits and installs prescribed system, using hand and power tools. Repairs jammed, worn or damaged locks by manipulation or dismantling and replacement or repair of defective parts, using hand tools. Modifies security systems by, for example, inserting different tumblers into locking mechanisms or changing locks. Cuts new or duplicate keys for locks and other security devices, using keycutting machine. Opens locked cars, safes, doors or padlocks by manipulation when keys have been mislaid.

May keep records of specifications of installed security systems. May fabricate, fit and assemble parts for one-off locks and security systems, using metalworking machines, welding or soldering equipment and precision hand and power tools. May specialise in fabricating, fitting and installing safes and strongrooms and be designated accordingly.

Safemaker

## Job Content Factors

## Workers

FP: GE10y PSP4y(T)  
HC: RIA

IP:  
RQ: L1 Q1 U2 V1

## Materials

SM: D2 P2 T1

EQ: P1 S2 M2

## Functions

MA: I2 A2 P2 D2 R2 M3 L2  
PA: P1 U2 C1 S2 W1 E2

SA: S1 L2 I1 B2 R4

## Context

EC: M2 L1 C07  
SS: 5

TC: A1 I1 T1  
SC: 5 (vy)

LMS: 250-300 (30%SE)

ASIC: 33,42

### 6062-B SAW MAKER AND REPAIRER

Makes blades for circular, band and other power saws and/or repairs, sets and sharpens blades for hand and power saws.

Selects sheet metal stock appropriate to size and type of blade to be manufactured. Straightens and stretches stock to desired shape, using rolling machine. Installs specified dies in power press and operates press to cut teeth in stock. Operates grinding and boring machines to trim and sharpen pressed teeth and to install mounting pinholes in blades. Welds or brazes together ends of bandsaws. Checks blade and tooth dimensions in relation to specifications, using precision measuring instruments such as micrometers and gauges. Examines saw blade for defects. Cuts broken teeth from saw, using power shears, bevels sheared joint and brazes or welds new teeth to blade, using grinding machines and brazing or welding equipment. Sets teeth to ensure specified width of cut, using special hand tools such as saw swages, saw shapers and sets. Sets up saw-sharpening machines in accordance with specified distance between saw teeth, angle of bevel and depth of cut, and operates machine to sharpen teeth.

May manually sharpen teeth, particularly on hand saws, using hand tools only. May specialise in the manufacture only of saws and be designated accordingly.

**Saw Maker**

May specialise in the repair and sharpening of saws and be designated accordingly.

**Saw Doctor****Saw Sharpener****Job Content Factors****Workers**

FP: GE10y PSP4y(T)  
HC: R1E

IP:  
RQ: V1

**Materials**

SM: D2 P2 T1

EQ: P1 S2 M2

**Functions**

MA: D2 R3 M2 L2

PA: P1 U2 C1 H2 W1 E3

SA: S1 L2 B2 R4

**Context**

EC: L1 C09  
SS: 4

TC: A1 R2  
SC: 6 (4 y)

LMS: NA (20%SE)

ASIC: 25,336

**6062-C****GUNSMITH  
Armourer**

Modifies, services and repairs rifles, revolvers and other small arms.

Examines parts and sub-assemblies, such as barrels, triggers, bolts, ejectors and magazines, for condition and accuracy of fit. Dismantles and corrects as necessary by such means as chiselling, filing, scraping, grinding, boring or otherwise machining. Replaces more seriously worn and broken parts,

and reassembles gun. Treats and polishes metal to limit corrosion and improve finish. Modifies guns to customer specifications by, for example, reborings barrel to enlarge calibre or fitting new stock. Test-operates using dummy cartridges to ensure smooth operation of moving parts such as ejector mechanism, using standard cartridges to determine and correct sighting errors or using overcharged cartridges and remote-control firing devices, and to detect faulty parts and poor assembly.

May fabricate, fit and assemble parts for custom-built or other specialised small arms, using hand and power tools. May make ammunition or refill spent cartridges, using specially designed tools and machines. May shape and fit gunstocks, using woodworking and other hand tools.

**Job Content Factors****Workers**

FP: GE10y  
HC: R1E

IP: T1-2y E2y  
RQ: Q2 V1

**Materials**

SM: D2 T1

EQ: P1 S2 M2

**Functions**

MA: A2 D2 R3 M2 L2

PA: P1 U2 C2 S1 W2 E2

SA: S1 I2

**Context**

EC: L1 C13,09  
SS: 4

TC: A1 I2  
SC: 8 (4 y)

LMS: NA (20%SE)

ASIC: 334

## 6063 JEWELLERY AND PRECIOUS METALWARE FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING TRADE OCCUPATIONS

This unit group covers occupations concerned with jewellery and precious metalware fabricating, assembling, maintaining and repairing occupations.

**Entry Requirements** usually a trade qualification.

**Activities include** fabricating, assembling and repairing complete jewellery articles, such as rings, brooches and bracelets; examining, cutting, shaping and polishing rough gemstones to produce fashion or industrial jewels; setting gems in prepared jewellery mountings; making and repairing precious metal or white metal articles by hand; and finishing jewellery or precious metalware by polishing or plating.

**Related Occupations**

Occupation 3001-C	: Jewellery Designer
Occupation 6082-D	: Process Worker, Jewellery Assembly
Occupation 6040-A	: Metal Spinner
Occupation 6015-C	: Metal Polisher, First Class
Occupation 6015-A	: Electroplater, First Class
Occupation 6016-A	: Electroplater, Second Class

**6063-A****JEWELLERY MAKER AND REPAIRER  
Jeweller**

Makes and repairs complete jewellery articles such as rings, brooches, chains and bracelets.

Studies design and specifications. Prepares wax mould for article or for metal mounting of article, using precision hand tools, and pours molten precious metal into mould. Shapes moulded metal by such methods as cutting, filing, beating, turning and bending, using specialised hand and power tools.

Fits stones into metal mounting by, for example, pressing, tapping, drilling, bending or cutting. Assembles article by soldering, screwing together or otherwise attaching parts. Engraves designs on assembled article where required, using engraver's tools. Finishes article using file, emery paper or buffing machine. Checks product specifications using precision measuring instruments. Repairs jewellery by soldering, replacing or rebuilding worn and broken parts. Restyles old jewellery by undertaking tasks similar to those involved in making new articles.

May produce own designs. May specialise in producing wax or metal models of jewellery items to enable designers, manufacturers or customers to assess material or production requirements, appearance and cost of final article, and may be designated accordingly,

Jewellery Model Maker

May, if specialising in the fabrication of metal mountings for jewellery items, be designated accordingly,

Gem Mounter

May specialise in making particular types of jewellery articles and be designated accordingly, e.g.

Chain Maker                      Ring Maker

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
HC: RA	RQ: Q2 V2
<b>Materials</b>	
SM: D2 T1	EQ: P1 M2
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: P1 S1 W2 E1	SA: S1 I2 B2 R4
<b>Context</b>	
EC: L1	TC: A1
SS: 6	SC: 9 (4 y)
LMS: NA (50%SE)	ASIC: 3482

**6063-B                      GEM CUTTER**  
**Faceter; Lapidary**

Cuts, shapes and polishes rough gemstones to produce fashion or industrial jewels.

Studies job requirements and rough stone, using magnifying glass where necessary. Marks out cutting guidelines, using ink and stylus. Saws or cleaves stone to approximate final shape, using precision hand and power tools, jigs and retaining agents such as wax or plastic cement. Secures stones in chuck or jig and sets up and operates lathe, grinding wheel or rotating disc (lap) to shape and smooth surface and cut facets. Periodically checks cutting progress and accuracy, using precision measuring instruments. Resecures cut stone and polishes against treated disc or rotating polishing head.

May specialise in diamond cutting and be designated accordingly,

Diamond Cutter

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE9-10y	IP: T2y
HC: R	RQ: V2
<b>Materials</b>	
SM: D2 T1	EQ: P1 M1
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: P1 S1 W2 E1	SA: S1 I2
<b>Context</b>	
EC: L1	TC: A1
SS: 5	SC: 8 (4 y)
LMS: NA (30%SE)	ASIC: 3482

**6063-C                      GEM SETTER AND ENGRAVER**

Sets gems in prepared jewellery mountings.

Examines design and mounting to determine appropriate location of settings and marks mounting accordingly. Secures, cuts, drills and shapes mounting in order to produce settings to accommodate gems. Decorates and finishes settings by engraving (where specified) and sandblasting, using engraver's tools and sandblasting machine. Positions and secures stones in settings by raising and pressing retaining prongs or ridges around stones or by tapping edges of settings, using hand tools. Smooths and checks final settings, using magnifying glass, measuring instruments, emery file and other hand tools.

May specialise in setting fashion diamonds, or precious stones, in mounting gems, or in setting industrial diamonds in hand and power tools and machines, and be designated accordingly.

Diamond Setter                      Precious Stone Setter  
Industrial Diamond Setter

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE9-10y	IP: T1-2y
HC: R	RQ: V2
<b>Materials</b>	
SM: D2 T1	EQ: P1 M2
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: P1 S1 W2 E1	SA: S1 I2
<b>Context</b>	
EC: L1	TC: A1
SS: 5	SC: 8 (4 y)
LMS: NA (30%SE)	ASIC: 3482

**6063-D                      PRECIOUS METAL SMITH**

Makes and repairs precious metal or white metal articles by hand.

Studies drawings, specifications or article model to determine job requirements. Cuts blanks from appropriate metal sheet using hand or power tools. Shapes metal blanks gradually by annealing and beating over shaped anvils or "spinning" on spinning lathe. Regularly checks component dimensions, using measuring instruments. Assembles shaped components according to specifications by such methods as soldering, brazing, rivetting or bolting. Trims excess metal from article, using hand tools, and planishes assembled article to eliminate distortions. Repairs worn metalware by remaking or replacing damaged parts or annealing and beating article.

May assemble components already shaped by other workers. May be designated according to metal worked with or type of products produced, e.g.

Goldbeater                      Goldsmith  
Hollow-ware Assembler      Silversmith

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE9-10y	IP: T2-3y
HC: RA	RQ: Q2
<b>Materials</b>	
SM: D2 T1	EQ: P1 S2 M2
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: P1 S1 W2 E2	SA: S1 I2 B2 R0-4
<b>Context</b>	
EC: L1	TC: A1
SS: 6	SC: 9 (4 y)
LMS: NA (20%SE)	ASIC: 3482

**6063-E                      JEWELLERY AND PRECIOUS**  
**METALWARE FINISHER**

Finishes jewellery or precious metalware by polishing or plating.

Secures article in jig or fixture, using retaining agent such as plastic cement where necessary. Sets up polishing and buffing machines in accordance with requirements. Trims, smooths and polishes article by applying it to disc or rotating head treated with polishing agent such as rouge or rottenstone. Buffs article manually or by machine, using buffing compound. Examines for quality of finish. If plating, undertakes tasks similar to those of 6015-C ELECTROPLATER, FIRST CLASS in the application of precious plating metal to articles of base or semi-precious metal.

May be designated according to article finished, finishing process used or plating metal applied, e.g.

Jewellery Electroplater                      Jewellery Polisher

Silverware Polisher  
Silver Plater (Jewellery)

Hollow-ware Polisher

#### Job Content Factors

##### Workers

FP: GE10y PSP4y(T)  
or FP: GE9-10y  
HC: R

IP:  
IP: T1-2y  
RQ:

##### Materials

SM: D2 T1

EQ: P2 S2 M1

##### Functions

MA: D2 R3 M3 L2

PA: P1 U2 C2 S2 W2 E2

SA: S1 L2

##### Context

EC: L1

SS: 5

TC: A1

SC: 8 (4 y)

LMS: NA (0 %SE)

ASIC: 3482

## 6064 APPRENTICE PRECISION INSTRUMENTS, JEWELLERY AND OTHER METAL PRODUCTS OCCUPATIONS

This unit group covers apprentice occupations in the various precision instruments, jewellery and silversmithing trades.

**Entry Requirements** persons in these occupations will normally have satisfied relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** those described under Master Title APPRENTICE.

### 6064-A APPRENTICE PRECISION INSTRUMENT MAKER

Receives instruction and training in the duties of a precision instrument maker.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

##### Workers

FP: GE10y  
HC: RIA

IP:  
RQ: V1

##### Materials

SM: D2 T1

EQ: P1 S2 M2

##### Functions

MA: D3 R3 M3 L2

PA: P1 U2 C1 S1 W2 E2

SA: S1 L2

##### Context

EC: L1 C07

SS: 1

TC: A1

SC: 3 (3 y)

LMS: NA (0 %SE)

ASIC: 33

##### Context

EC: M2 L1 C10

SS: 1

TC: A1 T2

SC: 3 (3 y)

LMS: NA (0 %SE)

ASIC: 33

### 6064-C APPRENTICE WATCH AND CLOCK REPAIRER

Receives instruction and training in the trade of watch and clock repairing.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

##### Workers

FP: GE10y  
HC: RIA

IP:  
RQ: V1 A2

##### Materials

SM: D2 P2 T1

EQ: P1 S1 M2

##### Functions

MA: A2 D3 R3 M3 L2

PA: P1 C1 S1 E2

SA: S1 L2 I2

##### Context

EC: L1 C07

SS: 1

TC: A1

SC: 3 (3 y)

LMS: NA (0 %SE)

ASIC: 33

### 6064-D APPRENTICE LOCKSMITH

Receives instruction and training in the trade of locksmithing.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

##### Workers

FP: GE10y  
HC: RIA

IP:  
RQ: L1 Q1 U2 V1

##### Materials

SM: D2 P2 T1

EQ: P1 S2 M2

##### Functions

MA: A2 D3 R3 M3 L3

PA: P1 U2 C1 S2 W1 E2

SA: S1 L2 I1

### 6064-B APPRENTICE OFFICE MECHANICAL EQUIPMENT SERVICEMAN/WOMAN

Receives instruction and training in the duties of an office mechanical equipment serviceman/woman.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

##### Workers

FP: GE10y  
HC: RIS

IP:  
RQ: L1 V1 A2

##### Materials

SM: D2 P2 T1

EQ: P1 S2 M2

##### Functions

MA: D3 R3 M3 L2

PA: P1 U1 C1 S2 W2 E3

SA: S1 L2 I2

<i>Context</i>	
EC: L1 C07	TC: A1 T2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 33,42

### 6064-E APPRENTICE SAW MAKER AND REPAIRER

Receives instruction and training in the duties of a saw maker and repairer.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP:
HC: R1E	RQ: V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S2 M2
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: P1 U2 C1 H1 W1 E3	SA: S1 L2
<i>Context</i>	
EC: L1 C09	TC: A1 R2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 25,336

### 6064-F APPRENTICE DIAMOND CUTTER

Receives instruction and training in the duties of a gem cutter.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP:
HC: IRA	RQ: Q1 U2 V1
<i>Materials</i>	
SM: D2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: A2 D3 R3 M2 L3	
PA: P1 C1 S1 E1	SA: S1 I2
<i>Context</i>	
EC: L1 C09	TC: A1
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 348

### 6064-G APPRENTICE JEWELLERY MAKER AND REPAIRER

Receives instruction and training in the jewellery making and repairing trade.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP:
HC: ARE	RQ: Q2 U2 V1
<i>Materials</i>	
SM: D2 I2 P2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: P2 D3 R3 M2 L3	
PA: P1 C1 H2 S1 E1	SA: A2 S1 I2
<i>Context</i>	
EC: L1 C07	TC: A1
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 348

### 6064-H APPRENTICE SILVERSMITH

Receives instruction and training in the trade of silversmithing.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP:
HC: ARE	RQ: Q1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: A2 D3 R3 M3 L3	
PA: P1 C1 H2 S1 W2 E2	SA: S1 I2
<i>Context</i>	
EC: L1 C01	TC: A1
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 348

### 6064-I APPRENTICE SILVERWARE POLISHER

Receives instruction and training in the duties of jewellery and precious metalware finisher.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP:
HC: RAI	RQ: V1
<i>Materials</i>	
SM: D2 T1	EQ: S2 M1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: P2 U1 C2 H2 S2 W2 E2	SA: S1
<i>Context</i>	
EC: L1 C09	TC: A1 R2
SS: 1	SC: 3 (3 y)
LMS: NA (0 %SE)	ASIC: 348

MINOR GROUP 607  
INSPECTORS, METAL WORKING OCCUPATIONS

Inspectors, Metal Working Occupations are classified in the following unit groups.

- 6070 Inspectors, Metal Processing, Machining, Shaping and Forming
- 6071 Inspectors, Metal Products Fabricating, Assembling, Maintaining and Repairing

6070 INSPECTORS, METAL PROCESSING, MACHINING, SHAPING AND FORMING

This unit group covers occupations concerned with the testing and inspecting of metal before, during and after processing, machining, shaping or forming.

**Entry Requirements** a trade qualification or para-professional certificate plus 1-5 years' experience.

**Activities include** designing test procedures; analysing specifications; selecting and examining articles in accordance with approved sampling techniques; applying functional tests, using precision measuring and testing instruments and specially designed machines; tagging and separating flawed items; and maintaining records.

6070-A PRESSURE WELD INSPECTOR  
Welding Supervisor

Inspects and tests the work of pressure welders in the fabrication or repair of pressure vessels, pressure pipes and other types of weldments.

Undertakes a series of inspecting and testing procedures before, during and after welding. Visually inspects weld preparation for conformity with standards regarding size, form, shape, undercut, overroll and surface conditions. Applies destructive tests to weld test pieces, including chemical analysis as well as tensile, bend, impact, nick-break, hardness and proof tests. Conducts or supervises non-destructive inspections such as visual-magnetic, dye-penetrant inspections, as well as hydrostatic and proof-stress tests. Records defects noted, probable causes, likely influence on performance and action taken. If inspecting pressure vessels, must work in conjunction with government inspector from the boiler and pressure vessels section.

May also undertake other tasks, such as supervision, safety monitoring, recruitment, costing, estimation and testing proficiency of pressure welders for specific types of work. May, if suitably certificated, conduct ultrasonic and X-ray inspections.

<b>Job Content Factors</b>	
<b>Workers</b>	
FP: GE10y PSP5y(T)	IP: E2-4y
HC: IRE	RQ: U2 D2 V1
<b>Materials</b>	
SM: D2 T1	EQ: P2 S1 M1
<b>Functions</b>	
MA: I2 A1 P2 D2 R2 M2 L2	
PA: P1 S2 W2 E2	SA: S1 B1 R3-4

<b>Context</b>	
EC: M2 L2 C11,12	TC: A1 I2 T2
SS: 6	SC: 9 (4 y)

LMS: NA (0 %SE)	ASIC: 31,412
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6070-B QUALITY CONTROL INSPECTOR,  
METAL PROCESSING, MACHINING,  
SHAPING AND FORMING

Applies functional testing and inspecting procedures to metal stock and castings, during or after processing, machining, shaping or forming, to ensure compliance with engineering standards or contract specifications.

Selects items to be examined, on the basis of either random or systematic sampling and undertakes a series of detailed testing procedures such as the following. Analyses drawings and other data to determine product specifications. Examines items to detect external flaws such as fractures or surface defects, and to check conformity with specifications in terms of, for example, dimensions, tensile strength, ductility, hardness or porosity, using precision testing and measuring instruments and specially designed test machines. Tags and separates items which fail to meet specifications. Records faults detected and prepares reports on action taken or recommended.

May examine all items rather than a sample thereof. May examine stock on delivery or at supplier's premises. May examine and report on the condition of plant and equipment used in the engineering process, and recommend appropriate changes. May design testing procedures, using knowledge of metrology, sampling theory, metal properties and quality control principles. May use non-destructive testing methods where appropriate. May be designated according to the material or type of operation being inspected, or to the area in which inspection is conducted, e.g.

Inspector, Electroplating	Inspector, Heat Treating
Inspector, Machine Shop	Wire Inspector

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: E1-2y
or FP: GE12y PSP1-2y(PPC)	IP: E3-5y
HC: IRE	RQ: D2 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M1

Functions

<i>MA: I2 A1 P2 D2 R2 M2 L2</i>	
PA: P1 C2 S2 W2 E2	SA: S2 L2 B1 R3-4
<i>Context</i>	
EC: L1 C04	TC: A1 I2 T2
SS: 6	SC: 8 (4 y)
LMS: NA (0 %SE)	ASIC: 31,32,33

6071 INSPECTORS, METAL PRODUCTS FABRICATING, ASSEMBLING, MAINTAINING AND REPAIRING

This unit group covers occupations concerned with the testing and inspecting of metal products during and after fabrication, assembly, maintenance or repair.

**Entry Requirements** Year 10 or, in some cases, a para-professional certificate and/or 2-6 years' experience.

**Activities include** designing test procedures; analysing specifications; selecting and examining articles; applying functional tests, using precision measuring and testing instruments and specially designed machines; tagging and separating flawed items; and maintaining records.

6071-A AUTOMOBILE INSPECTOR  
Vehicle Assembly Inspector

Inspects motor vehicles or parts at various stages of production to ensure conformity with manufacturing standards and appearance.

Reads work orders and studies drawings and specifications. Checks dimensions of parts using gauges, micrometers, callipers etc. Checks installation and function of parts and assemblies, wiring and accessories. Inspects paintwork and trim for imperfections. Records defects on check sheet.

Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: T2-3m E5y
HC: IR	RQ: V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1
<i>Functions</i>	
MA: A2 D2 R3 M3 L3	
PA: P2 H2 S2 W2 E2	SA: S2 L1 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 6	SC: 9 (4 y)
LMS: NA (0 %SE)	ASIC: 32

6071-B QUALITY CONTROL INSPECTOR  
(METAL PRODUCTS) nec

Applies functional testing and inspecting procedures to various metal and related products to ensure compliance with manufacturing standards or contract specifications.

Selects goods to be examined, on the basis of either random or systematic sampling, and undertakes a series of detailed testing procedures such as the following. Visually inspects items at various stages of production to detect inferior appearance, poor assembly or missing parts. Compares items

to standard parts list and to specifications, and verifies dimensions, alignments, nut torques and clearances, using precision measuring and testing instruments such as micrometers, gauges, tachometers and other electronic test equipment. Test-operates items and monitors performance to detect signs of malfunctioning such as overheating and excess noise or vibration. Makes minor repairs or adjustments, using hand tools. Tags and separates more seriously flawed items for further examination, overhaul or rejection. Records faults and prepares reports on action taken or recommended.

May examine all goods rather than a sample thereof. May examine goods inwards as well as outwards and under manufacture. May conduct examinations of components at suppliers' premises. May examine and report on the condition of plant and equipment used in manufacturing process, and recommend appropriate changes. May design testing procedures, using knowledge of metrology, sampling theory, metal properties and quality control principles. May be designated according to the type of product inspected, e.g.

- Agricultural Equipment Inspector
- Bicycle Inspector
- Typewriter Inspector (Mechanical)

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP	IP: T3-6m E5-6y
or FP: GE10y PSP1y(PPC)	IP: E2y
HC: IR	RQ: V1
<i>Materials</i>	
SM: D2 T1	EQ: P2 S1
<i>Functions</i>	
MA: A2 D2 R3 M3 L3	
PA: P2 U1 H2 S2 W2 E2	SA: S2 L2 B1 R3-4
<i>Context</i>	
EC: L1 C04	TC: A1 I2
SS: 6	SC: 9 (4 y)
LMS: NA (0 %SE)	ASIC: 31,33,34

**MINOR GROUP 608**  
**PROCESS WORKERS, METAL AND METAL PRODUCTS**

Process Workers, Metal and Metal Products are classified in the following unit groups.

- 6080 Supervisors/Foremen/women, Process Workers, Metal and Metal Products
- 6081 Trades Assistants, Metal and Metal Products
- 6082 Process Workers, Metal and Metal Products

**6080 SUPERVISORS/FOREMEN/WOMEN, PROCESS WORKERS, METAL AND METAL PRODUCTS**

This unit group covers occupations concerned with the supervision of process workers in the production, processing and finishing of metal and metal products.

**Entry Requirements** a trade qualification and 3-5 years' experience or, in some cases, 5-7 years' experience in related areas.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**6080-A SUPERVISOR/FOREMAN/WOMAN, PROCESS WORKERS, METAL AND METAL PRODUCTS**

Supervises and co-ordinates activities of workers engaged in tasks which require minimal training, are generally limited and repetitive in function, need only standardised and straightforward verbal or written instructions and usually involve the following set procedures, in the processing, machining, shaping, forming, fabricating, assembling, maintaining and repairing of metal and metal products (unclassified to date).

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: E3-5y
or FP: GE NFR	IP: T6m E5-7y
HC: REC	RQ: D1 V1
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 N2 M2 W2
<i>Functions</i>	
MA: A2 P2 D3 R4 L3	
PA: U2 H2 W2 E3	SA: S1 L1 B1 R2-3
<i>Context</i>	
EC: L1 C08,09	TC: A1 I2
SS: 4	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: Many

**6081 TRADES ASSISTANTS, METAL AND METAL PRODUCTS**

This unit group covers occupations concerned with assisting tradespersons engaged in metal and metal products procesing activities.

**Entry Requirements** one year's experience in related areas.

**Activities include** carrying out routine tasks as directed by tradespersons.

**6081-A TRADES ASSISTANT, METAL AND METAL PRODUCTS**  
**Tradesperson's Helper (Metal and Metal Products)**

Carries out routine tasks as directed by tradespersons.

Undertakes any of the following or similar duties. Positions and holds metal stock or product, particularly in awkward locations, to enable tradespersons to work on it. Hands tradesperson tools and holds those not immediately required. Performs simpler assembly and dismantling operations, such as screwing or bolting. Transports tools, materials and workpieces to and from site or workbench. Operates power hammers, presses or other cutting and shaping tools and machines at tradesperson's direction. Cleans and prepares tradesperson's working surface. Conveys instructions to and from tradesperson. Maintains simple records.

May be designated according to the type of tradespersons assisted or the form of assistance provided, e.g.

Blacksmith's Striker      Boilermaker's Assistant  
 Fitter's Assistant  
 Blacksmith's Hammer Driver  
 Forger's Assistant (Metal Processing)

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T3-6m Ely
HC: R	RQ: V1
<b>Materials</b>	
SM: T1	EQ: S1 N1 M1
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 H1 W1 E3	SA: S1 L1
<b>Context</b>	
EC: L1 C09	TC: A1 I2 R1
SS: 3	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

**6082 PROCESS WORKERS, METAL AND METAL PRODUCTS**

This unit group covers process working and other basic occupations in the production, processing and finishing of metal and metal products.

**Entry Requirements** no formal requirements.

**Activities include** performing basic processing duties in the metals and metal products industry.

**6082-A CARBON PLANT WORKER**

Performs one or a combination of the following duties to turn carbon into anodes used in metal-reduction pots.

Removes rod from used anode and sends rod for straightening and repair and used anode to be crushed for recycling. Monitors console of mixing plant that prepares the carbon mix into anodes. Operates controls to activate hopper, chain conveyor, cooling chamber belt and power rolls. Regulates flow of water to carbon cooling chamber. Regulates heat in mould to operating temperature, observing pressure gauge. Observes instruments which indicate hopper is filled and carbon mix is discharged into mould. Starts mechanical vibrator that packs mix into mould to compact mix. Adjusts ram stroke to press block to specified size. Stops press when warning light indicates malfunction or when mould is overheated. Removes rejects from conveyor. Operates oil-fired ring furnace to graphitise green carbon electrodes. Lights burner, adjusts controls for oil, water, manifold damper and head covers to regulate temperature in furnace. Observes gauges and records water and oil pressures at regular intervals. Measures flue and pit temperatures, using optical pyrometer, to ensure process temperatures are being maintained. Inspects and maintains pumps, motors, blowers, gas scrubber system and pipelines. Records operating data. Operates rodding machine which attaches rod to anode. Attaches rod spades, using insulating paste and operating tamping mechanism. Straightens damaged rod in a straightener and repairs them using appropriate welding techniques.

May be designated according to duties performed, e.g.  
 Anode Press Operator      Ring Furnace Operator  
 Rodding Press Operator  
 Mixer Attendant (Carbon Plant)

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T2-8w
HC: R	RQ: D1
<b>Materials</b>	
SM: T1	EQ: W2
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E4	SA: L2
<b>Context</b>	
EC: L1 C06,09	TC: A1 I2 R2
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 295

**6082-B PRODUCTION WORKER, METAL PROCESSING**

Provides support activities in the processing of metals and metal products by tending or operating machines and equipment or following simple set procedures, performing a combination of the following duties.

Tends automatic line to ensure product moves unimpeded through plant. Operates automatic welding equipment to join two sections of coil or strip in plant. Operates saws, shears or other equipment to cut product to length or to remove defective parts. Uses simple hand tools, such as files and knives, to remove burrs and to cut sections. Uses hand grinders to dress castings. Operates machines such as the following: shotblasting equipment to clean and smooth large castings; machine that points and tapers ends of tubes or rod to allow insertion in drawing die; stretching machine for stretching and straightening metal bar or rod after extrusion.

May be designated according to machine worked on or position on production line, e.g.  
 Dresser/Grinder      Stretcher Operator  
 Second-Line Assistant (Metal)

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: R	RQ: V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H1 W1 E3	SA: S1 L1
<i>Context</i>	
LC: L1 C09	TC: A1 I2 R1
SS: 3	SC: 4 ( vy)
LMS: NA (0 %SE)	ASIC: Many

6082-C      **PRODUCTION WORKER, METAL FINISHING**

Tends equipment or follows simple set procedures to coat metal objects by electrolytic or non-electrolytic processes, performing a combination of the following duties.

Secures articles to be coated in racks, jigs, barrels etc. for immersion in cleaning bath to remove dust, grease and dirt. Operates or directs operation of lifting equipment to immerse articles in cleaning, fluxing or coating baths. Assists in loading feeder mechanism with metal sheet, strips, tubes or coils, manually or using hoists. Sets up instruments to detect faults. Adjusts guides and gauges where necessary. Collects solutions and coating compounds from store. Replenishes water tanks. Unloads coated articles from plant. Where necessary, cools coated articles by immersing in quenching tank. Removes dross from bottom of cooling bath. Stacks scrap material for removal.

May be designated according to process worked on, e.g.  
Anodiser                                      Electroplater, Third Class  
Hot-Dip Galvaniser                      Pickler (Metal Finishing)  
Tinner    Metal Dipper  
Tinning Line Assistant                  Galvaniser, Continuous Plant

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE NFR	IP: T1-8w
HC: R	RQ: V1
<i>Materials</i>	
SM: T1	EQ: S1 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H1 W1 E3	SA: S1 L1
<i>Context</i>	
EC: L1 C08,09	TC: A1 I2 R1
SS: 3	SC: 4 ( vy)
LMS: NA (0 %SE)	ASIC: Many

6082-D      **PROCESS WORKER, JEWELLERY ASSEMBLY**  
**Jewellery Assembler; Jewellery Benchworker; Jewellery Machine Operator; Jewellery Process Worker**

Assembles components of jewellery and precious metal articles by performing a limited range of functions repetitively, using basic hand tools or operating preset automatic, semi-automatic or single-purpose machines.

Undertakes tasks similar to those of assembly machine operator or testing and examining (metal) process worker, in relation to the production of jewellery and precious metalware articles.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE NFR	IP: T1-13w
HC: RA	RQ:
<i>Materials</i>	
SM: T1	EQ: S2 M2
<i>Functions</i>	
MA: D3 R4 L3	
PA: P2 U2 S2 W2 E2	SA: S2 L2

<i>Context</i>	
EC: L1	TC: A1 R1
SS: 3	SC: 6 ( vy)
LMS: NA (0 %SE)	ASIC: 3482

6082-E      **PROCESS WORKER, ASSEMBLY (METAL)**  
**Assembler, Metal and Metal Products**

Assembles components and sub-assemblies of metal products by performing a limited range of functions using basic hand tools; operates preset spot, butt, seam, stud or friction welding machine repetitively after minimal instruction.

Following simple, standardised instructions and/or drawings, locates and positions or secures on workbench the components to be assembled. Assembles components in specified sequence, using basic hand and power tools such as spanners, screwdrivers, light hammers, hand drills and soldering irons, by such actions as bolting, screwing, rivetting, glueing, soldering or spot welding. Punches or drills mounting holes in parts or assembled products. Deburrs and finishes items using files, grinding wheels or emery paper.

May participate in the assembly of motor vehicles at various stages on a progressive assembly line and be designated accordingly, e.g.  
Vehicle Assembler

May use electric spot or butt welding machine or cut scrap with an oxy-acetylene blowpipe, and be designated,  
Welder, Third Class

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE NFR	IP: T1-8w
HC: R	RQ: V1
<i>Materials</i>	
SM: D2 T1	EQ: P1 S1 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 S2 W1 E3	SA: L1
<i>Context</i>	
EC: L1	TC: A1 I1 R1
SS: 3	SC: 5 ( vy)
LMS: NA (0 %SE)	ASIC: Many

6082-F      **PROCESS WORKER, MACHINE OPERATION (METAL)**  
**Machinist, Third Class**

Operates preset automatic, semi-automatic or single-purpose machines or machine tools repetitively to shape and form metal stock, components and castings, by any combination of the following methods.

Loads stock or other items into feeding mechanism or secures workpiece on working surface. Tends machine or machine tool which shapes or forms stock through such processes as drilling, spot welding, pressing, stamping, milling or cutting, by activating hand or foot controls. Monitors machine's operation, reporting machine faults to supervisor as they occur. Refills or reloads machine as necessary. Removes and gathers processed items. Superficially inspects final product.

May use preset or unadjustable gauges to check product dimensions. May measure or examine a small sample of the machine's product before initiating a full production run. May operate a numerically controlled machine tool. May, if specialising in the operation of a pneumatic or hydraulic press or a powered forging machine, be designated accordingly, e.g.  
Forging Machine Operator      Press Operator (Metal)

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE NFR	IP: T1-12w E0-3m
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: T1	EQ: M1

*Functions*

MA: D3 R4 M1 L3

PA: U1 C2 H1 W1 E2

SA: L1

*Context*

EC: L1 C09

TC: A1 I1 R1

SS: 3

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: Many

**6082-G****PROCESS WORKER, TESTING AND EXAMINING (METAL)  
Examiner (Metal Products); Process Inspector (Metal Products); Viewer (Metal Products)**

Performs simple predetermined tests on assembled metal products or components thereof to ensure that they meet manufacturing standards or contract specifications.

Uses preset or unadjustable measuring instruments or basic hand tools to undertake one or more of the following operations. Conducts visual inspection of items, possibly using magnifying aids, to detect inferior appearance, poor assembly or missing parts. Compares assembled products with standard parts list. Uses measuring instruments such as rules, templates or callipers to check product dimensions. Performs minor adjustments to faulty products, using hand tools such as screwdrivers, spanners and files. Tags and separates more seriously flawed items for further inspection, reprocessing or rejection. Maintains record of defective items.

May examine every item from the production run, possibly at a stage on the assembly line, or merely a sample thereof according to a predetermined sampling procedure.

*Job Content Factors**Workers*

FP: GE NFR

IP: T1-8w E0-3m

HC: R

RQ: D1 V1

*Materials*

SM: T1

EQ: S1 M1

*Functions*

MA: D2 R3 M3 L3

PA: U1 C2 H2 W1 E2

SA: L1

*Context*

EC: L1

TC: A1 I1 R1

SS: 3

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: Many

**6082-Z****PROCESS WORKERS, METAL AND METAL PRODUCTS nec**

This residual group covers all labouring, process working and basic occupations concerned with the production, processing and finishing of metal and metal products, not elsewhere classified in Minor Group 608.



## **MAJOR GROUP 61**

### **ELECTRICAL OCCUPATIONS**

Electrical Occupations are classified in the following minor groups.

- 610 Electrical Trade Occupations
- 611 Electronic Trade Occupations
- 619 Other Electrical and Related Occupations

#### *Related Occupations*

Minor Group 204 : Engineering Occupations

# 61 ELECTRICAL OCCUPATIONS

## 610 ELECTRICAL TRADE OCCUPATIONS

### 6100 SUPERVISORS, ELECTRICAL TRADE AND RELATED OCCUPATIONS

- 6100-A Supervisor, Powerline
- 6100-B Supervisor, Electrical Fitters
- 6100-C Supervisor, Electrical Mechanics
- 6100-D Supervisor, Automotive Electricians
- 6100-E Supervisor, Refrigeration and Air-Conditioning Mechanics
- 6100-Z Supervisors, Electrical Trade and Related Occupations nec

### 6101 ELECTRICAL POWERLINE INSTALLATION AND MAINTENANCE OCCUPATIONS

- 6101-A Power Linesman/woman
- 6101-B Cable Joiner

### 6102 ELECTRICAL FITTERS

- 6102-A Electrical Fitter, Production/Installation
- 6102-B Electrical Fitter, Maintenance
- 6102-C Coil Winder, Heavy Duty
- 6102-D Electrical Equipment Servicer

### 6103 ELECTRICAL MECHANICS

- 6103-A Electrical Mechanic
- 6103-B Aircraft Electrical Mechanic

### 6104 AUTOMOTIVE ELECTRICIANS

- 6104-A Automotive Electrician

### 6105 REFRIGERATION AND AIR-CONDITIONING MECHANICS

- 6105-A Refrigeration Mechanic
- 6105-B Air-Conditioning Mechanic

### 6106 ELECTRICAL TRADE APPRENTICE OCCUPATIONS

- 6106-A Apprentice Power Linesman/woman
- 6106-B Apprentice Electrical Fitter
- 6106-C Apprentice Electrical Mechanic
- 6106-D Apprentice Automotive Electrician
- 6106-E Apprentice Refrigeration Mechanic/Fitter
- 6106-F Apprentice Aircraft Mechanic (Electrical)

### 6109 OTHER ELECTRICAL TRADE OCCUPATIONS

- 6109-A Electrician, Special Class
- 6109-B Lift Mechanic
- 6109-Z Electrical Trade Occupations nec

## 611 ELECTRONIC TRADE OCCUPATIONS

### 6110 SUPERVISORS, ELECTRONIC TRADE OCCUPATIONS

- 6110-A Supervisor, Communications Equipment Tradespersons
- 6110-B Supervisor, Telecommunication Line Tradespersons
- 6110-C Supervisor, Radio and Television Servicing Tradespersons
- 6110-Z Supervisors, Electronic Trade Occupations nec

### 6111 COMMUNICATIONS EQUIPMENT TRADE OCCUPATIONS

- 6111-A Communications Equipment Tradesperson
- 6111-B Broadcasting Tradesperson
- 6111-C Telecommunication Line Serviceman/woman

### 6112 RADIO AND TELEVISION SERVICING OCCUPATIONS

- 6112-A Radio and Television Tradesperson

### 6113 APPRENTICE RADIO AND TELEVISION MECHANIC OCCUPATIONS

- 6113-A Apprentice Radio and Television Mechanic

### 6114 TELECOMMUNICATION TRAINEE OCCUPATIONS

- 6114-A Telecommunication Trainee
- 6114-B Trainee Lineman/woman, Telecommunication
- 6114-Z Telecommunication Trainee Occupations nec

### 6119 OTHER ELECTRONIC TRADE OCCUPATIONS

- 6119-A Control Equipment Tradesperson
- 6119-B Computer Serviceman/woman
- 6119-Z Electronic Trade Occupations nec

## 619 OTHER ELECTRICAL AND RELATED OCCUPATIONS

### 6190 ELECTRICAL/TELECOMMUNICATION TRADES ASSISTANTS

- 6190-A Trades Assistant, Electrical
- 6190-B Trades Assistant, Telecommunication
- 6190-C Linesman/woman's Assistant
- 6190-D Telecommunication Lineman/woman's Assistant
- 6190-Z Electrical/Telecommunication Trades Assistants nec

### 6191 PROCESS WORKERS, ELECTRICAL AND ELECTRONIC EQUIPMENT

- 6191-A Machine Operator, Process Work (Electrical and Electronic Equipment)
- 6191-B Process Worker, Electrical and Electronic Equipment
- 6191-C Process Worker, Testing (Electrical and Electronic Equipment)

MINOR GROUP 610  
ELECTRICAL TRADE OCCUPATIONS

Electrical Trade Occupations are classified in the following unit groups.

- 6100 Supervisors, Electrical Trade and Related Occupations
- 6101 Electrical Powerline Installation and Maintenance Occupations
- 6102 Electrical Fitters
- 6103 Electrical Mechanics
- 6104 Automotive Electricians
- 6105 Refrigeration and Air-Conditioning Mechanics
- 6106 Electrical Trade Apprentice Occupations
- 6109 Other Electrical Trade Occupations

Related Occupations

- Unit Group 2042 : Electrical Engineers
- Unit Group 2046 : Engineering Drafting and Other Technical Officers
- Unit Group 2047 : Engineering Technicians and Drafting Assistants

6100 SUPERVISORS, ELECTRICAL TRADE AND RELATED OCCUPATIONS

This unit group covers supervisors of electrical trade and related occupations.

**Entry Requirements** satisfactory completion of an apprenticeship in an appropriate electrical trade plus 5 years' post-trade experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

Related Occupations

- Unit Group 6110 : Supervisors, Electronic Trade Occupations

6100-A SUPERVISOR, POWERLINE  
Powerline Supervisor

Supervises and co-ordinates the activities of workers concerned with installing and maintaining powerlines and associated equipment used for transmitting and distributing electric energy.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Performs switching and isolating duties, and maintains distribution network diagrams.

May supervise teams of specialist workers involved in installing, maintaining and repairing aerial, underground or submarine powerlines.

Job Content Factors

Workers

- FP: GE11-12y PSP4y(T)
- HC: RE1
- IP: E5y
- RQ: L1 S1 U2 D2 V1 A2

Materials

- SM: D2 I2 P1 T2
- EQ: P2 S2 V2 W2

Functions

- MA: A2 P1 D2 R3 M3 L2
- PA: P2 U2 C2 H2 S2 W2 B1 E3
- SA: S1 L2 M2 B1 R3-4

Context

- EC: L3 C10,12,02
- SS: 6
- TC: A2 I2
- SC: 9 ( 3y)

- LMS: 250-500 (0 %SE)
- ASIC: 4122

6100-B SUPERVISOR, ELECTRICAL FITTERS  
Foreman/woman, Electrical Fitters

Supervises and co-ordinates the activities of workers concerned with fitting, assembling, maintaining and repairing industrial and commercial electrical plant and equipment where the equipment does not require a licensed electrical mechanic to perform the task.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers involved in a particular area of electrical fitting, such as production, installation, maintenance or servicing.

#### Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP4y(T)	IP: E5y
HC: RS	RQ: S1 U2 D2 V1 A2
<i>Materials</i>	
SM: D2 I2 P1 T2	EQ: P2 S2 M2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: P2 U2 C2 H2 S2 W2 B1 E2	SA: S1 L2 M2 B1 R3-4
<i>Context</i>	
EC: M2 L1 C10,09,12	TC: A1 I2 T2
SS: 6	SC: 9 ( 3y)
LMS: NA (0 %SE)	ASIC: 335,336

### 6100-C SUPERVISOR, ELECTRICAL MECHANICS Foreman/woman, Electrical Mechanics

Supervises and co-ordinates the activities of workers concerned with installing, maintaining and repairing wiring for the distribution of electrical power.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers involved in a particular area of electrical mechanics such as maintenance or construction site installations.

#### Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP4y(T)	IP: E5y
HC: RIS	RQ: S1 U2 D2 V1 A2
<i>Materials</i>	
SM: D2 I2 P1 T2	EQ: S1 N2 M2 W2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: P2 U2 H2 S2 W2 B2 E2	SA: S2 L2 M2 B1 R3-4
<i>Context</i>	
EC: M2 L1 C10,12,07	TC: A1 I2 T2
SS: 6	SC: 9 ( 3y)
LMS: NA (0 %SE)	ASIC: 4243

### 6100-D SUPERVISOR, AUTOMOTIVE ELECTRICIANS Foreman/woman, Automotive Electricians

Supervises and co-ordinates the activities of workers concerned with installing, maintaining and repairing electrical wiring and components in automobiles, trucks and buses.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP4y(T)	IP: E5y
HC: RIS	RQ: L1 S1 U2 D2 V1 A2
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: P2 U2 C2 S2 W2 E2	SA: S1 I2 P2 M2 B1 R3-4
<i>Context</i>	
EC: M2 L1 C06,07	TC: A1 I2 T2
SS: 6	SC: 9 ( 3y)
LMS: NA (0 %SE)	ASIC: 4864

### 6100-E SUPERVISOR, REFRIGERATION AND AIR-CONDITIONING MECHANICS Foreman/woman, Refrigeration and Air-Conditioning Mechanics

Supervises and co-ordinates the activities of workers concerned with assembling, installing, servicing and repairing refrigeration and air-conditioning units and systems.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May specialise in supervising refrigeration or air conditioning mechanics, and be designated accordingly, e.g.

Supervisor, Air-Conditioning Mechanics  
Supervisor, Refrigeration Mechanics

#### Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP4y(T)	IP: E5y
HC: RIS	RQ: S1 U2 D2 V1 A2
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: P2 U2 C2 H2 S2 W2 B2 E2	SA: S1 L2 M2 B1 R3-4
<i>Context</i>	
EC: M2 L1 C01	TC: A1 I2 T2
SS: 6	SC: 9 ( 3y)
LMS: NA (0 %SE)	ASIC: 4857,4861,4244

### 6100-Z SUPERVISORS, ELECTRICAL TRADE AND RELATED OCCUPATIONS nec

This residual group covers supervisors of electrical trade occupations not elsewhere classified in Unit Group 6100, e.g.  
Supervisor, Lift Mechanics

## 6101 ELECTRICAL POWERLINE INSTALLATION AND MAINTENANCE OCCUPATIONS

This unit group covers trade occupations concerned with installing and maintaining powerlines and associated equipment used for transmitting and distributing electric energy.

**Entry Requirements** satisfactory completion of an apprenticeship in an appropriate electrical trade, such as electrical mechanics, cable jointing or powerline working.

**Activities include** installing, repairing and maintaining aerial, underground and submarine power transmission lines, conduits, cables and accessories.

#### Related Occupations

Unit Group 6103 : Electrical Mechanics

**6101-A POWER LINESMAN/WOMAN**

Installs, repairs, maintains and patrols overhead and underground electric power distribution networks between generator switch yards and customer supply points.

Performs techniques which are particular to the electrical equipment and distribution system, on all voltages. Drives vehicles, and operates cranes, lifting devices, hand and power tools and machinery to dig holes, install earth stakes, poles, guy wires, trenches and pits, and footings for sub-stations. Climbs ladder or poles, or stands in lift bucket to trim trees and install or repair aerial equipment such as cross arms, insulators, transformers, light and customer supply points. Joins overhead conductors using compression fittings and adjusts the tension using various equipment. Lays, fixes and joins cross-layered polyethylene cable. Covers energised conductors with insulating materials and performs live low-voltage work. Performs emergency repairs and de-energising of conductors. Monitors safe working conditions and equipment, and practises resuscitation, rescue and first aid procedures.

May prepare sheets and perform switching and isolation duties, and power sub-station work. May perform live high-voltage work. May perform duties of 6190-Z STREET LIGHTING ATTENDANT. May perform duties on traction lines and be designated accordingly, e.g.

Electric Railway Linesman/woman

Tramway Linesman/woman

**Job Content Factors****Workers**

FP: GE11-12y PSP4y(T)

HC: RSI

IP:

RQ: L1 S1 U2 D1 V1 A2

**Materials**

SM: D2 T1

EQ: P2 S1 N1 W2

**Functions**

MA: A2 D2 R3 M3 L3

PA: P2 U2 C1 H1 W1 B1 E3

SA: A2 S1 B2 R4

**Context**

EC: M2 L2 C10,12,02

SS: 4

TC: A1 I2

SC: 7 (4y)

LMS: 3500-4000(0 %SE)

ASIC: 4122

**6101-B CABLE JOINTER**

Installs, tests and maintains underground electric power cable systems and related equipment.

Digs trenches and service pits or tunnels for cable. Lays cable in trenches or fixes to walls. Joins paper insulated, lead sheathed, oil filled or cross-layered polyethylene cable, using specialised techniques. Tests performance of installed cables and maintains location diagrams.

May test for the presence of gas. May encase cables in armoured or other protective covers. May perform similar duties to those of 6101-A POWER LINESMAN/WOMAN.

**Job Content Factors****Workers**

FP: GE11-12y PSP4y(T) / (B)

HC: RS

IP:

RQ: S1 D2 V1 A2

**Materials**

SM: D2 T1

EQ: P2 S1 W2

**Functions**

MA: A2 D2 R3 M3 L3

PA: P2 U2 C1 H1 S2 W1 B1 E3

SA: A2 S1 B2 R4

**Context**

EC: M2 L2 C10,12

SS: 4

TC: A1 I2 R2

SC: 7 (4y)

LMS: 1000 (0 %SE)

ASIC: 4122

**6102 ELECTRICAL FITTERS**

This unit group covers electrical trade occupations concerned with fitting, assembling, maintaining and repairing industrial and commercial electrical plant and equipment.

**Entry Requirements** satisfactory completion of an apprenticeship in electrical fitting.

**Activities include** studying drawings and specifications; assessing parts and materials required; measuring parts for accuracy; using hand and machine tools to fabricate or modify metal parts; fitting and assembling components; selecting, preparing and connecting electrical wiring; checking product dimensions; and test-operating equipment or sub-assemblies.

**Related Occupations**

Unit Group 6103

: Electrical Mechanics

**6102-A ELECTRICAL FITTER, PRODUCTION/INSTALLATION**

Fits, assembles and installs electrical plant, equipment and components.

Establishes job requirements from blueprints, wiring diagrams or specifications. Determines parts and materials required and checks them for accuracy, using measuring instruments. Where necessary, fabricates or modifies metal parts using machine tools such as lathes and drilling machines, hand tools and welding equipment. Assembles components using hand tools, welding and heating equipment. Checks alignment and accuracy of fit using measuring instruments. Selects and cuts wire or cable, strips insulation from wire ends and, following

wiring diagram, connects wire or cable to appropriate terminals or connectors by crimping, brazing, soldering or bolting. Lubricates moving parts, such as bearings. Lays out installation reference points using measuring instruments. Positions components on site, using hoisting equipment where necessary, and assembles using hand tools and welding equipment. Connects to power supply, test-operates and adjusts as necessary.

May specialise in the fabrication or installation of particular types of electrical plant and equipment, such as generators, transformers or switchgear, and be designated accordingly, e.g.

Electrical Fitter/Mechanic  
Instrument Fitter, Electrical

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP4y(T)	IP:
HC: RSI	RQ: S1 U2 D2 V1 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S1 M2
<b>Functions</b>	
MA: P2 D2 R3 M3 L2	
PA: P2 U1 C2 H1 S2 W1 B1 E3	SA: S1 L2 B2 R4
<b>Context</b>	
EC: M2 L1 C10.09,12	TC: A1 I2
SS: 5	SC: 9 (4y)
LMS: 7000-8000(0 %SE)	ASIC: 335,336

**6102-B ELECTRICAL FITTER, MAINTENANCE**

Services and repairs electrical plant and machinery.

Checks and overhauls electrical system on a regular basis or in response to complaints of malfunctioning. Examines blueprints, wiring diagrams or specifications to determine sequence and method of operation. Traces faults by detecting excess vibration, noise or heat, and by using electrical test equipment such as ammeters and voltmeters. Dismantles unit using hand tools, and traces circuits to detect wiring or insulation faults, using wiring diagram. Repairs or replaces defective components, such as fuses, switches or bearings, using hand and power tools. Reshapes worn metal parts using machine tools such as lathes and undercutting machines. Cleans and reassembles system. Test-operates and monitors performance relative to specifications, using electrical test instruments, and adjusts as necessary. Records causes of malfunction and action taken.

May specialise in maintaining particular types of plant and machinery such as motors, generators or switchgear. May specialise in the rewinding and re-insulation of faulty armatures, either manually or using winding and insulation-taping machines and be designated accordingly, e.g. Armature Winder

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP4y(T)	IP:
HC: RI	RQ: S1 U2 D2 V1 A2
<b>Materials</b>	
SM: D2 T1	EQ: P2 S1 M2
<b>Functions</b>	
MA: A2 P2 D2 R3 M3 L2	
PA: P2 U1 C2 H1 S2 W1 E3	SA: S1 L2 B2 R0-4
<b>Context</b>	
EC: M2 LV C10.06	TC: A1 I1 R2 T2
SS: 5	SC: 9 (4y)
LMS: 13000 (0 %SE)	ASIC: 4857,4243

**6102-C COIL WINDER, HEAVY DUTY**

Winds and shapes continuous coils by machine or hand for heavy-duty electrical equipment, using round or flat insulated copper wire.

Studies drawings and specifications to determine type and size of wire and of mandrel or coil former, lead lengths, winding sequence and locations of switching connections and ducts.

Positions mandrel or coil former and wire rolls, and inserts end of wire. Winds wire manually or by machine, following wiring specifications. Brazes switching connections (taps) where required. Inserts plastic or compressed wood strips, facing rings and chocks as specified for mechanical separation, cooling and lubrication ducts, using hand tools such as brazing torches, clamps, mallets, knives and spanners. Maintains coil shape and wire tension by turning screws and pounding with soft mallet when necessary. Checks product dimensions using measuring instruments.

May specialise in winding coils for a particular type of heavy duty electrical equipment such as generators or stators.

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP4y(T)	IP:
HC: RI	RQ: S1 U2 D2 V1 A2
<b>Materials</b>	
SM: D2 T1	EQ: P2 S2 M2 W2
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: P2 U2 C2 H1 S2 W2 E3	SA: A2 S2 B2 R0-4
<b>Context</b>	
EC: L1 C06	TC: A1 R2
SS: 6	SC: 7 (8y)
LMS: 50-100 (0 %SE)	ASIC: 3357

**6102-D ELECTRICAL EQUIPMENT SERVICER  
Service Mechanic, Electrical Appliances;  
Electrical Appliance Servicer**

Services and repairs domestic and commercial electrical appliances and equipment.

Queries customer on precise symptoms of faulty unit and observes its operation to detect excess vibration, noise, heat or other parts such as belts, gears or pumps for flaws or signs of wear. Traces electrical circuits, using wiring diagram, and repairs faulty wiring, using hand tools and soldering equipment. Repairs or replaces defective parts, such as switches, belts, timers or elements. Cleans and lubricates mechanism. Reassembles unit and test-operates. Monitors performance, both visually and using electrical test instruments, and adjusts as necessary. Records causes of malfunctioning and action taken.

May service appliances on customer's premises. May specialise in servicing particular types of appliances, such as electric stoves, washing machines or clothes dryers.

**Job Content Factors**

<b>Workers</b>	
FP: GE11-12y PSP4y(T)	IP:
HC: RI	RQ: S1 U2 V1 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S1 W2
<b>Functions</b>	
MA: A1 D2 R3 M3 L2	
PA: P2 U2 H1 S1 W2 E3	SA: A1 S2 I2 B2 R0-4
<b>Context</b>	
EC: L1 C10	TC: A1 R2
SS: 5	SC: 9 (4y)
LMS: 500-1000 (0 %SE)	ASIC: 4857,4243

**6103 ELECTRICAL MECHANICS**

This unit group covers electrical trade occupations concerned with installing, maintaining and repairing wiring for the distribution of electrical power.

**Entry Requirements** satisfactory completion of an apprenticeship in electrical mechanics.

**Activities include** laying-out, installing, maintaining and repairing electrical wiring and related equipment in houses, industrial and commercial establishments, and transport equipment such as aircraft, ships and trains; and installing lighting fixtures, power and points, conduit, meters, switchboards and associated equipment.

*Related Occupations*

Unit Group 6102 : Electrical Fitters

**6103-A ELECTRICAL MECHANIC Electrician**

Installs, maintains and repairs electrical wiring and related equipment in ships, trains, houses, and commercial and industrial establishments.

Examines wiring diagrams and installation areas to plan layout of wiring system. Positions and installs electrical switchboards. Installs sheathed cable, using power drill and hand tools. Measures and cuts plastic conduit to size, using hacksaw. Installs conduit and pulls wire through. Splices wires by stripping insulation from terminal leads with pliers, twisting and soldering wires together, and applying tape or terminal caps. Connects ends of installed wires to circuit breakers, transformers, timers and other electrical equipment to complete circuit. Installs and connects items such as switches, lighting fixtures and earthing systems. Connects power distribution system to power supply. Tests continuity of circuit to ensure electrical compatibility and safety of all components using standard instruments such as ohmmeter and voltmeter.

May specialise in the installation, modification, maintenance and repair of electrical equipment such as storage heaters, water heaters, electric signs or switchboards. May work on a contract basis or in a particular industry sector or location and be designated accordingly, e.g.

- Electrical Contractor
- Television Studio Electrician
- Shipyards Electrician
- Railway Workshop Electrician
- Mine Electrician
- Refinery Electrician
- Colliery Electrician
- Ship's Electrician
- Gaffer (Film Production)
- Bestboy/girl (Film Production)

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP4y(T)	IP:
HC: R1	RQ: S1 U2 D2 V1 A2

<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N2
<i>Functions</i>	
MA: A2 D2 R3 M3 L2	
PA: P2 U2 H1 S2 W1 B1 E3	SA: A2 S2 B2 R4
<i>Context</i>	
EC: M2 L1 C10,12,07	TC: A1 I2 R2
SS: 5	SC: 9 ( 4y)
LMS: 33000 (? %SE)	ASIC: 4243

**6103-B AIRCRAFT ELECTRICAL MECHANIC**

Installs, maintains, repairs or modifies electrical wiring and electrical power systems in aircraft.

Studies drawings and specifications to determine layout and location. Exposes or dismantles electrical system, and examines components, such as distribution boards, fuse boxes, switches and power points, to detect faults and to comply with maintenance procedures. Installs electrical circuits and electrical equipment as required using wiring diagram and electrical test instruments such as voltmeters, ammeters and continuity testers. Examines system to ensure its compliance with electrical safety regulations. Repairs or replaces defective parts and wiring. Records causes of malfunctioning, and action taken or recommended.

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP4y(T)	IP:
HC: R1C	RQ: U2 D1 V2 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S1 M2
<i>Functions</i>	
MA: A1 P2 D2 R3 M3 L2	
PA: P1 U1 S2 W2 B2 E3	SA: S2 L1 B2 R4
<i>Context</i>	
EC: L1 C07,10	TC: A1 I2
SS: 5	SC: 9 ( 4y)
LMS: NA (0 %SE)	ASIC: 5403,3244

**6104 AUTOMOTIVE ELECTRICIANS**

This unit group covers electrical trade occupations concerned with installing, maintaining and repairing electrical wiring and components in automobiles, trucks and buses.

**Entry Requirements** satisfactory completion of an apprenticeship in automotive electrics.

**Activities include** mounting and connecting equipment to power sources; using test instruments to locate faults; replacing defective parts and wiring; and test operating equipment.

6104-A AUTOMOTIVE ELECTRICIAN

Installs, maintains and repairs electrical wiring and components in automobiles, trucks and buses.

Installs electrical equipment such as gauges, alternators, capacitors and starter motors. Connects power operated equipment such as radios, air-conditioners, power windows and related accessories to power supply. Uses test instruments to locate electrical malfunctions. Adjusts distributor breaker-point gap using feeler gauge, and adjusts timing, using dwell meter or timing light and hand tools. Tests and replaces defective alternators, generators, starter motors, and related items such as voltage regulators. Repairs or replaces faulty ignition and electrical wiring. Replaces defective parts such as fuses, lamps and switches.

Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP4y(T)	IP:
HC: RI	RQ: L2 S1 U2 D2 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1
<i>Functions</i>	
MA: A2 D2 R3 M3 L2	
PA: P2 U2 SV W1 E2	SA: S1 P1 B2 R4
<i>Context</i>	
EC: L1 C06,07	TC: A1 I2
SS: 5	SC: 8 ( 4y)
LMS: 2750-3000(20%SE)	ASIC: 4864

6105 REFRIGERATION AND AIR-CONDITIONING MECHANICS

This unit group covers electrical trade occupations concerned with assembling, installing, servicing and repairing refrigeration and airconditioning units and systems.

**Entry Requirements** satisfactory completion of an apprenticeship in refrigeration fitting, mechanics or servicing.

**Activities include** assembling and mounting components; wiring and connecting equipment to power sources; locating faults with test instruments; replacing defective parts and wiring; and test operating equipment.

*Related Occupations*

- Unit Group 6102 : Electrical Fitters
- Unit Group 6103 : Electrical Mechanics
- Occupation 6109-A : Electrician, Special Class

6105-A REFRIGERATION MECHANIC  
Refrigeration Fitter

Assembles, installs, services and repairs industrial, commercial and domestic refrigeration and cooling systems according to specifications.

Establishes job requirements from blueprints and specifications, and lays out installation reference points using measuring instruments. Drills holes and installs mounting brackets. Sets up components, such as compressors, motors, condensers, switches, gauges and copper lines, and bolts, solders, rivets, welds or brazes them to cooling unit or units. Cuts and threads pipes where necessary. Checks alignment and accuracy of fit using measuring instruments. Deoxidises lines with dry nitrogen.

Fills with gas or fluid to check for leaks and repairs as necessary. Vacuum-pumps to remove test gas or fluid and fills with refrigerant. Test-operates, checks mechanism by referring to specifications and adjusts accordingly, using measuring and testing equipment and hand tools. Checks and overhauls system, either on a regular basis or in response to customer complaints of malfunctioning. Diagnoses faults, using testing instruments. Disassembles system. Repairs or replaces defective components, adjusts mechanism and reassembles system, using hand tools and measuring and testing instruments. Test-operates system. Records causes of malfunctioning and action taken.

Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP4y(T)	IP:
HC: RI	RQ: S1 U2 D2 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 W2
<i>Functions</i>	
MA: A2 D2 R3 M3 L2	
PA: U2 C2 H1 S2 W1 BV E3	SA: A2 S2 B2 R4
<i>Context</i>	
EC: M2 L1 C01	TC: A1 I2
SS: 5	SC: 9 ( 4y)
LMS: 4500-6000(0 %SE)	ASIC: 4857,4861,4244

6105-B AIR-CONDITIONING MECHANIC

Assembles, installs, services and repairs air-conditioning units and systems.

Mounts compressor and condenser units at specified locations, using material handling equipment and following specifications. Installs evaporator units in cabinets or in air ducts. Cuts, bends and threads piping according to requirements. Attaches piping to refrigeration unit using sleeves, couplings or unions, and solders joints to form complete circulatory system for refrigerant. Co-ordinates activities with workers installing ducting. Installs wiring for circulating fans and compressor unit. Installs air and water filters. Charges unit with refrigerant. Switches on unit, observes pressure and vacuum gauges, and adjusts controls for

optimum performance. Tests refrigerant lines to detect leaks. Repairs installed units by adjusting or replacing controls or parts, or by recharging with refrigerant.

May specialise in the installation or repair of air-conditioners and be designated accordingly, e.g.

Air-Conditioning Installation Mechanic  
Air-Conditioning Service Mechanic

#### Job Content Factors

##### Workers

FP: GE11-12y PSP4y(T) IP:  
HC: RI RQ: S1 U2 D2 V1 A2

#### Materials

SM: D2 P2 T1 EQ: P2 S1 W2

#### Functions

MA: A2 D2 R3 M3 L2  
PA: U2 C2 H1 W1 B2 E3 SA: S1 L2 B2 R0-4

#### Context

EC: M2 L1 C01,07,12 TC: A1 I2  
SS: 5 SC: 9 ( 4y)

LMS: 1000-1500(0 %SE) ASIC: 4857,4861,4244

## 6106 ELECTRICAL TRADE APPRENTICE OCCUPATIONS

This unit group covers electrical trade apprentice occupations such as powerline working, electrical fitting, electrical mechanics, automotive electrics and refrigeration mechanics.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

### 6106-A APPRENTICE POWER LINESMAN/ WOMAN

Receives instruction and training in the trade of powerline installation, maintenance and repair.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

##### Workers

FP: GE11-12y IP:  
HC: RI RQ: U1 D1 V1 A2

##### Materials

SM: D2 T1 EQ: P2 S1 N1 W1

##### Functions

MA: D3 R4 M3 L3  
PA: P2 U1 C2 H1 W1 B1 E4 SA: A2 S1

##### Context

EC: M2 L2 C10,12,02 TC: A1 I2  
SS: 1 SC: 3 ( 3y)

LMS: 400-800 (0 %SE) ASIC: 361

### 6106-B APPRENTICE ELECTRICAL FITTER

Receives instruction and training in the trade of electrical fitting in order to carry out fitting, assembling, maintenance and repair duties on industrial and commercial electrical plant and equipment.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

##### Workers

FP: GE11-12y IP:  
HC: RIC RQ: U1 D2 V1 A2

##### Materials

SM: D2 T1 EQ: P2 S1 M2

##### Functions

MA: D3 R4 M3 L3  
PA: P2 U1 C2 H1 S2 W1 E3 SA: S1 L2

#### Context

EC: M2 LV C06,10 TC: A1 I1 R2 T2  
SS: 1 SC: 3 ( 3y)

LMS: 2000-4000(0 %SE) ASIC: 33,361

### 6106-C APPRENTICE ELECTRICAL MECHANIC

Receives instruction and training in the trade of electrical mechanic in order to carry out installation, maintenance and repair functions on wiring for the distribution of electrical power.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

##### Workers

FP: GE11-12y IP:  
HC: RIC RQ: U1 D2 V1 A2

##### Materials

SM: D2 T1 EQ: P2 S1 N2 V2

##### Functions

MA: D3 R4 M3 L3  
PA: P2 U1 H1 S2 W1 B1 E3 SA: A2 S2 L2 I2

##### Context

EC: M2 L1 C10,12,07 TC: A1 I2 R2  
SS: 1 SC: 3 ( 3y)

LMS: 3000-7000(0 %SE) ASIC: 361,335

### 6106-D APPRENTICE AUTOMOTIVE ELECTRICIAN

Receives instruction and training in the trade of automotive electrician in order to carry out the installation, maintenance and repair of electrical wiring and components in automobiles, trucks and buses.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

Job Content Factors

<i>Workers</i>	
FP: GE11-12y	IP:
HC: RI	RQ: L2 U1 D2 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M2 V2
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 U1 H1 S2 W1 B1 E3	SA: A2 S2 I2
<i>Context</i>	
EC: L1 C06,07,10	TC: A1 I2
SS: 1	SC: 3 ( 3y)
LMS: 300-600 (0 %SE)	ASIC: 32

6106-E APPRENTICE REFRIGERATION MECHANIC/FITTER  
Apprentice Refrigeration Service Mechanic/  
Fitter

Receives instruction and training in the trade of refrigeration mechanics/fitting and servicing in order to carry out assembly, installation, service and repair of refrigeration and air-conditioning units and systems.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

Job Content Factors

<i>Workers</i>	
FP: GE11-12y	IP:
HC: RIC	RQ: U1 D2 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M2 V2 W2

Functions

MA: D3 R4 M3 L3	SA: A2 S2 L2 I2
PA: P2 U1 C2 H1 S2 W1 BV E3	
<i>Context</i>	
EC: M2 L1 C01,10,07	TC: A1 I2
SS: 1	SC: 3 ( 3y)
LMS: 600-1200 (0 %SE)	ASIC: 361,335,336

6106-F APPRENTICE AIRCRAFT MECHANIC (ELECTRICAL)

Receives instruction and training in the trade of aircraft mechanics (electrical) in order to carry out installation, maintenance and repair of aircraft electrical equipment.

Performs duties as described under Master Title APPRENTICE on a progressive basis according to a training schedule.

Job Content Factors

<i>Workers</i>	
FP: GE11-12y	IP:
HC: RIC	RQ: U2 D1 V2 A2
<i>Materials</i>	
SM: D1 P2 T2	EQ: P2 S1 M2
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 U1 S2 W2 B2 E3	SA: L1
<i>Context</i>	
EC: L1 C07,10	TC: A1
SS: 1	SC: 3 ( 3y)
LMS: NA (0 %SE)	ASIC: 3244

6109 OTHER ELECTRICAL TRADE OCCUPATIONS

This residual unit group covers electrical trade occupations not elsewhere classified in Minor Group 610, such as special class electricians and lift mechanics.

**Activities include** studying drawings and specifications; assembling and installing equipment and components; maintaining and repairing equipment and wiring; testing and adjusting operational performance of equipment; and locating and correcting faults and malfunctions.

6109-A ELECTRICIAN, SPECIAL CLASS

Services and repairs intricate and complex electrical or electronic circuitry.

Diagnoses and repairs faults in electrical circuitry which has a substantial electronic component and is connected to multiple and often varied energy sources with controlled sequences, or is otherwise of a complex nature. Analyses drawings and specifications to determine sequence and method of operation. Uses electrical and electronic test instruments to trace faults. Dismantles unit, repairs or replaces defective components and reassembles. Test-operates, monitors performance and adjusts as necessary. Records causes of malfunctioning and action taken.

May service and repair circuitry in prototype and other non-standard units. May service and repair components of electrical equipment powered by hydraulic, pneumatic or other non-electrical energy sources.

Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP4-5y(T)	IP: E2y
HC: RI	RQ: S1 U2 D2 V1 A2

Materials

SM: D2 T1	EQ: P2 S1 W2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: P1 U2 C2 S2 W1 B2 E3	SA: S1 L2 B2 R4
<i>Context</i>	
EC: M2 L1 C10,07,12	TC: A1 I2
SS: 8	SC: 9 ( 4y)
LMS: 200-300 (0 %SE)	ASIC: 4734

6109-B LIFT MECHANIC  
Elevator Mechanic; Lift Electrician

Assembles, installs, adjusts, maintains and repairs electric and hydraulic freight and passenger lifts, escalators and related elevating equipment.

Studies drawings, and lays out location of framework, counter-balance rails, motor, pump, and cylinder foundations. Installs elevator guide rails and verifies alignment. Installs cables, counterweight, pumps, motor foundations, escalator drives, elevator cars, doors, entrance frames and control panels. Installs safety and control devices. Connects electrical

wiring to control panels and electric motors. Tests and adjusts entire assembly, including cables, wiring and electrical controls.

Adjusts counter weight and regulates controls to compensate for power overload. Tests and adjusts safety controls, such as brakes and governors. Carries out regular maintenance program on operational lifts. Locates and determines cause of faults in motors, brakes, switches and control systems. Repairs hydraulic or mechanical brakes by adjusting or replacing valves, ratchets, seals and brake linings.

May specialise in the service and repair of lifts or escalators and be designated accordingly, e.g.

Elevator Service Mechanic    Lift Service Mechanic

*Job Content Factors*

*Workers*

FP: GE11-12y PSP4y(T)	IP: E2y
HC: R1	RQ: S1 U2 D2 V1 A2

*Materials*

SM: D2 P2 T1	EQ: P2 S2
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*Functions*

MA: A2 D2 R3 M3 L2	
PA: P1 U2 C2 S2 W1 B1 E3	SA: A2 S1 B2 R4

*Context*

EC: M2 L1 C10,12,07	TC: A1 I2 T2
SS: 8	SC: 9 ( 4y)

LMS: 1000-1250(0 %SE)	ASIC: 3369
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**6109-Z                    ELECTRICAL TRADE OCCUPATIONS**  
**nec**

This residual group covers electrical trade occupations not elsewhere classified in Minor Group 6109, e.g.

Quality Control Inspector, Electrical Products/Equipment

**MINOR GROUP 611**  
**ELECTRONIC TRADE OCCUPATIONS**

Electronic Trade Occupations are classified in the following unit groups.

- 6110 Supervisors, Electronic Trade Occupations
- 6111 Communications Equipment Trade Occupations
- 6112 Radio and Television Servicing Occupations
- 6113 Apprentice Radio and Television Mechanics Occupations
- 6114 Telecommunication Trainee Occupations
- 6119 Other Electronic Trade Occupations

*Related Occupations*

- Unit Group 2042 : Electrical Engineers
- Unit Group 2046 : Engineering Drafting and Other Technical Officers
- Unit Group 2047 : Engineering Technicians and Drafting Assistants

**6110 SUPERVISORS, ELECTRONIC TRADE OCCUPATIONS**

This unit group covers supervisors of electronic trades personnel and related persons such as trades assistants and process workers.

**Entry Requirements** satisfactory completion of an apprenticeship in radio and television mechanics, or a certificate in electronic or electrical (electronic options) engineering, plus a minimum of 5 years' work experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

*Related Occupations*

- Unit Group 6100 : Supervisors, Electrical Trade and Related Occupations

**6110-A SUPERVISOR, COMMUNICATIONS EQUIPMENT TRADESPERSONS**  
**Telecommunication Technical Officer/ Supervisor**

Supervises and co-ordinates the activities of personnel engaged in installing, maintaining and repairing communications internal or external plant.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Undertakes more complex fault finding and clearing duties on communications equipment.

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP3-4y(T)	IP: E5y
or FP: GE11-12y PSP2y(PPC)	IP: T2y E5-6y
HC: RIS	RQ: S1 U2 D2 V1 A2
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S2 V1
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: P2 U2 C2 S1 W2 B2 E2	SA: S1 L2 M2 B1 R3-4

*Context*

EC: M2 LV C10,12	TC: A1 I2 T2
SS: 6	SC: 8 ( 3y)
LMS: NA (0 %SE)	ASIC: 4122

**6110-B SUPERVISOR, TELECOMMUNICATION LINE TRADESPERSONS**  
**Line Officer, Telecommunication; Line Supervisor, Telecommunication**

Supervises and co-ordinates the activities of personnel engaged in installing, maintaining and repairing telecommunication cables, wires and related external plant.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Carries out difficult fault locating duties.

May supervise field operations or engineering projects involving specialised equipment. May perform inspection and outpost supervision duties.

*Job Content Factors*

<i>Workers</i>	
FP: GE11y PSP2-4y(T)	IP: E6-10y
HC: RIS	RQ: U2 V1 A1
<i>Materials</i>	
SM: D2 I2 P1 T2	EQ: S2 N2 V2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: P2 U2 C2 H2 S1 W2 B2 E2	SA: S1 L2 M2 B1 R3-4
<i>Context</i>	
EC: M2 LV C10,12	TC: A1 I2 T2
SS: 6	SC: 8 ( 3y)
LMS: NA (0 %SE)	ASIC: 4122

**6110-C SUPERVISOR, RADIO AND TELEVISION SERVICING TRADESPERSONS**

Supervises and co-ordinates the activities of personnel engaged in maintaining, adjusting and repairing radio and television receivers and related audio and visual reproduction equipment.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise persons specialising in radio or television servicing, and be designated accordingly, e.g.  
Supervisor, Radio Serviceman/woman  
Supervisor, Television Serviceman/woman

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP3-4y(T)	IP: E5-6y
HC: RIS	RQ: U2 V1 A1
<i>Materials</i>	
SM: D2 I2 P1 T2	EQ: P2 S2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: P2 U2 C2 S1 W2 E2	SA: S2 L1 I2 M2 B1 R3-4
<i>Context</i>	
EC: M2 L1 C10	TC: A1 I2 T2
SS: 6	SC: 8 ( 3y)
LMS: NA (0 %SE)	ASIC: 4122

**6110-Z SUPERVISORS, ELECTRONIC TRADE OCCUPATIONS nec**

This residual group covers supervisors of electronic occupations not elsewhere classified in Unit Group 6110, e.g.  
Supervisor, Control Equipment Tradespersons

**6111 COMMUNICATIONS EQUIPMENT TRADE OCCUPATIONS**

This unit group covers trade and related occupations concerned with installing, maintaining and repairing communication lines and cables, and related communication equipment at internal and external locations, which provide audio and visual transmission and reception facilities.

**Entry Requirements** satisfactory completion of an apprenticeship or other course of training in radio, television or telegraph mechanics.

**Activities include** installing, securing and adjusting interconnecting assemblies and units; disassembling, diagnosing and locating faults; replacing defective components; and reassembling equipment.

*Related Occupations*

Unit Group 6112	: Radio and Television Servicing Occupations
Unit Group 6119	: Other Electronic Trade Occupations

**6111-A COMMUNICATIONS EQUIPMENT TRADESPERSON  
Telecommunication Tradesperson**

Installs, maintains, tests and repairs communication equipment providing audio and visual communication services such as television relays, and data transmission and reception facilities.

Examines drawings, specifications and work area to determine position and connections for communication equipment to be installed. Erects frame or other platform for equipment. Positions switching and power apparatus according to floor plans. Attaches outgoing and incoming wires and cables using other binding tools. Tests operation of communication equipment using electrical and electronic test instruments. Adjusts equipment to ensure operation to required standard. Locates electrical and mechanical faults in equipment using test instruments such as headsets, ohmmeters, voltmeters and ammeters. Repairs, replaces and adjusts faulty items such as switches, relays, amplifiers and circuit boards.

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP3-4y(T)	IP:
or FP: GE10y	IP: T2y E2y
HC: RI	RQ: S1 U2 D2 V1 A2
<i>Materials</i>	
SM: D2 T1	EQ: P2 S2 K2
<i>Functions</i>	
MA: A2 D2 R3 M3 L2	
PA: P1 U2 C2 S1 W2 B2 E3	SA: S1 L2 B2 R0-4
<i>Context</i>	
EC: M2 L1 ,12,10	TC: A1 I2
SS: 8	SC: 10 ( 4y)
LMS: 25000 (0 %SE)	ASIC: 4122

**6111-B BROADCASTING TRADESPERSON**

Installs, maintains and repairs electronic radio and television broadcasting equipment, such as microphones, television cameras and telecine equipment.

Analyses reports and consults with equipment operators to obtain details of malfunction. Examines equipment to detect defects such as loose or broken wires, and poor connections. Replaces defective wiring and terminals, and re-solders connections.

Locates faulty components such as capacitors, electron tubes, printed circuit boards and transformers using electronic test equipment. Replaces faulty assemblies and components. Switches on transmitting equipment and checks output power, frequency and modulation against specifications. Checks operation of related equipment such as antennas, remote controls and auxiliary power units.

May work on outside broadcasting locations, or specialise in radio or television broadcasting, and be designated accordingly, e.g.

Outside Broadcasting Tradesperson  
Radio Broadcasting Tradesperson  
Television Broadcasting Tradesperson

#### Job Content Factors

##### Workers

FP: GE11-12y PSP2-4y(T)

IP:

HC: RI

RQ: U2 V2 A2

##### Materials

SM: D2 P2 T1

EQ: P2 S2

##### Functions

MA: A2 D2 R3 M3 L2

PA: P1 U2 C2 S1 W2 E2

SA: S1 L2 B2 R4

##### Context

EC: M2 L4 C10

SS: 8

TC: A1 IV R2

SC: 10 ( 4y)

LMS: 400-500 (0 %SE)

ASIC: 4122

#### 6111-C

#### TELECOMMUNICATION LINE SERVICEMAN/WOMAN

Lineman/woman, Telecommunication;  
Telecommunication Liner

Installs, maintains and locates faults in all types of external telecommunication plant, including less complex customer equipment.

Erects, tests and maintains aerial wires. Installs major cable systems and joins cable by hand or machine, sheath sealing with lead or thermoplastic. Distributes cable pairs from exchanges or pillars. Installs lead-ins, internal wiring, and less complex equipment at customer premises. Locates and repairs faults in all lines and cables, and less complex customer equipment.

May join radio lines and cables. May be required to provide on-the-job training for trainees.

May specialise in installing radio masts, towers, antennas and transmitter feeders and be designated, e.g.

Radio Lineman/woman

#### Job Content Factors

##### Workers

FP: GE11y

IP: T2-5y E2y

HC: RI

RQ: U2 D2 V1 A2

##### Materials

SM: D2 P2 T1

EQ: P1 S1

##### Functions

MA: D3 R3 M3 L2

PA: P2 U2 C2 S2 W1 B2 E2

SA: S1 L2 B2 R4

##### Context

EC: M2 L2 C12,10

SS: 5

TC: A1 I2

SC: 7 ( 4y)

LMS: 2500-3500(0 %SE)

ASIC: 4122

## 6112 RADIO AND TELEVISION SERVICING OCCUPATIONS

This unit group covers trade occupations concerned with maintaining, adjusting and repairing radio and television receivers, and related audio and visual reproduction equipment such as tape recorders, phonographs and video cassette recorders.

**Entry Requirements** satisfactory completion of an apprenticeship in radio and/or television mechanics.

**Activities include** examining drawings and specifications; mounting, connecting and wiring components; monitoring performance of equipment; dismantling units, examining and testing parts; repairing or replacing defective wiring and components; reassembling and test-operating units; and preparing work reports on equipment.

#### 6112-A

#### RADIO AND TELEVISION TRADEPERSON

Radio and Television Repairer

Maintains, adjusts and repairs radio and television receivers, and related audio and visual reproduction equipment such as tape recorders, phonographs and video cassette recorders.

Queries client to determine nature of equipment malfunction. Observes radio and television reception and listens to sound to assist in diagnosing faults. Removes protective covering from equipment to gain access to componentry. Performs voltage and resistance tests and waveform check, using electronic test equipment. Replaces defective tubes. Adjusts controls of colour receiver using colour bar generator. Examines motors of record turntables and tape recorders. Adjusts or replaces

faulty parts. Tests electronic circuitry, resistors and capacitors. Aligns receiver. Records servicing time and replacement parts used.

May install television set and antenna on client premises. May accept and receipt payment for service.

#### Job Content Factors

##### Workers

FP: GE11-12y PSP3-4y(T)

IP:

HC: RI

RQ: U2 V1 A1

##### Materials

SM: D2 P2 T1

EQ: P2 S1

##### Functions

MA: A2 D2 R3 M3 L2

PA: P2 U2 C2 S2 W2 E3

SA: S1 L2 I2 P1 B2 R0-4

Context	
EC: M2 L1 C10	TC: A1 I2
SS: 8	SC: 9 ( 4y)
LMS: 3000-4000(0 %SE)	
ASIC: 4857	

6113 APPRENTICE RADIO AND TELEVISION MECHANIC OCCUPATIONS

This unit group covers apprentice occupations in radio and television servicing.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

6113-A APPRENTICE RADIO AND TELEVISION MECHANIC  
Apprentice Radio and Television Servicer

Receives instruction and training in the trade of radio and television mechanics.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May specialise in radio or television mechanics and be designated accordingly, e.g.

Radio Mechanic                      Television Mechanic

Job Content Factors	
Workers	
FP: GE11-12y	IP:
HC: RIE	RQ: L2 U1 D2 V1 A1
Materials	
SM: D2 P2 T1	EQ: P1 S1 V2
Functions	
MA: I2 A2 D2 R4 M3 L2	
PA: P1 U1 C2 S2 W2 E3	SA: S1 L2 I2 P2 B2 R4
Context	
EC: M2 L1 C10,07	TC: A1 I2 T2
SS: 1	SC: 3 ( 3y)
LMS: 300-800 (0 %SE)	
ASIC: 335	

6114 TELECOMMUNICATION TRAINEE OCCUPATIONS

This unit group covers trainee occupations in telecommunication.

**Entry Requirements** Year 11.

**Activities include** receiving instruction in the installation, maintenance, testing and repair of communication equipment.

6114-A TELECOMMUNICATION TRAINEE

Receives instruction and training in the installation, maintenance, testing and repair of telecommunication equipment.

Performs duties on a progressive basis according to a training schedule.

May undertake bridging training and be designated accordingly, e.g.

Telecommunication Tradesperson-in-Training

Functions	
MA: A2 D3 R4 M3 L3	
PA: P2 U1 C2 W2 B2 E3	SA: S1 L2 I2
Context	
EC: M2 L1 C12,10	TC: A1 I2
SS: 1	SC: 3 ( 3y)
LMS: 2000-3000(0 %SE)	
ASIC: 56	

6114-B TRAINEE LINEMAN/WOMAN, TELECOMMUNICATION

Receives instruction and training in the installation, maintenance, testing and repair of telecommunication cables, wires and related external plant.

Under supervision and instruction, progressively performs the duties undertaken by 6111-C TELECOMMUNICATION LINE SERVICEMAN/WOMAN.

Job Content Factors	
Workers	
FP: GE11-12y PSP	IP:
or FP: GE10-11y PSP2-3y(PPC)	IP: T1-2y E0-2y
HC: RIC	RQ: U1 D2 V1 A2
Materials	
SM: D2 P2 T1	EQ: P2 S2 K2 V2

May undertake bridging training and be designated accordingly, e.g.

Liner-in-Training, Telecommunication

Line Serviceman/woman-in-Training, Telecommunication

#### Job Content Factors

##### Workers

FP: GE11-12y

IP: E2y

or FP: GE10-12y

IP: T20w

HC: RIC

RQ: U1 D2 V1 A2

##### Materials

SM: D2 P2 T1

EQ: P2 S2 N2 V2 W2

#### Functions

MA: I2 A2 D3 R4 M3 L3

PA: P2 U1 C2 S2 W1 B1 E3

SA: S1 L2 I2

#### Context

EC: M2 L1 C12,10

TC: A1 I2

SS: 1

SC: 5 ( 2y)

LMS: 100-200 (0 %SE)

ASIC: 56

#### 6114-Z

#### TELECOMMUNICATION TRAINEE OCCUPATIONS nec

This residual group covers trainee telecommunications occupations not elsewhere classified in Unit Group 6114, e.g. Telegraph Mechanic

### 6119 OTHER ELECTRONIC TRADE OCCUPATIONS

This residual unit group covers electronic tradespersons not elsewhere classified in Minor Group 611, concerned with such activities as the installation, maintenance, testing and repair of industrial control and computing equipment.

**Activities include** installing, securing, and adjusting interconnecting assemblies and units; diagnosing and locating faults; replacing defective components; and inspecting and testing equipment.

#### 6119-A

#### CONTROL EQUIPMENT TRADESPERSON

Installs, maintains, tests and repairs electrical and electronic monitoring and signalling systems such as traffic controls, fire and burglar alarms, and industrial control equipment.

Examines drawings, specifications and work site to determine position and connections for equipment to be installed. Connects and solders wires to contact points. Checks circuits of installation to verify accuracy of assembly, using circuit drawings and electrical and electronic test instruments such as voltmeters and ammeters. Sets up and checks alarm, monitoring and warning controls, and signal transmission equipment to prepare system for operation according to requirements. Carries out an inspection program to maintain, adjust, and repair faulty control equipment or replace damaged or worn items such as wiring, broken lenses and burnt-out light bulbs. Installs remote control television cameras where required.

May specialise in the installation, maintenance or repair of a particular type of control equipment and be designated accordingly, e.g.

Alarms Installer

Electrical and Electronic Signal Mechanic

#### Job Content Factors

##### Workers

FP: GE11-12y PSP4y(T)

IP:

or FP: GE10-12y PSP2-3y(B)

IP: E3y

HC: R1

RQ: U2 D2 V1 A1

##### Materials

SM: D2 T1

EQ: P2 S2

##### Functions

MA: A2 D2 R3 M3 L2

PA: P2 U2 S2 W1 E3

SA: S1 L2 B2 R0-4

#### Context

EC: M2 LV C10

TC: A1 I2

SS: 8

SC: 10 ( 4y)

LMS: 1000-1500(0 %SE)

ASIC: 3352,6336,8494,6389

#### 6119-B

#### COMPUTER SERVICEMAN/WOMAN

Installs, services and repairs computer hardware.

Reads blueprints and consults manufacturers' manuals to determine installation procedures. Assembles circuitry in accordance with specifications. Sets up standard test equipment to evaluate functional and operational performance. Interprets test data and examines circuitry to locate faults. Replaces defective components and wiring, using soldering equipment. Adjusts and calibrates circuitry and components. Completes service reports.

#### Job Content Factors

##### Workers

FP: GE11-12y PSP2-5y(T) / (B)

IP:

or FP: GE12y PSP2y(PPC)

IP: T1y

HC: R1

RQ: U2 V1 A2

##### Materials

SM: D2 T1

EQ: P2 S1

##### Functions

MA: A2 D2 R3 M3 L2

SA: S1 L2 I2

PA: P2 U2 C2 S2 W2 E2

#### Context

EC: M2 L1 C10

TC: A1 I2

SS: 8

SC: 10 ( 4y)

LMS: 2400-3000(0 %SE)

ASIC: 4734

#### 6119-Z

#### ELECTRONIC TRADE OCCUPATIONS nec

This residual group covers electronic trade occupations not elsewhere classified in Minor Group 611 e.g.

Serviceman/woman, Electronic Office Equipment

**MINOR GROUP 619**  
**OTHER ELECTRICAL AND RELATED OCCUPATIONS**

Other Electrical and Related Occupations are classified in the following unit groups.

- 6190 Electrical/Telecommunication Trades Assistants
- 6191 Process Workers, Electrical and Electronic Equipment

**6190 ELECTRICAL/TELECOMMUNICATION TRADES ASSISTANTS**

This unit group covers non-trade occupations concerned with providing direct assistance to electrical and telecommunication tradespersons.

**Entry Requirements** Year 10.

**Activities include** conveying and holding tools; using and operating hand and power tools in an assisting capacity; performing routine tasks related to installation; assisting in the storage and handling of equipment; and cleaning worksite.

**6190-A TRADES ASSISTANT, ELECTRICAL**

Assists electrical tradespersons in the performance of their duties.

Carries tools and assists with transportation of materials to and from work location. Sets up and arranges equipment under supervision, and with the help of tradespersons. Undertakes preparatory and routine duties to aid tradesperson, and attends to the immediate requirements of tradesperson to enable successful completion of the job in hand.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP: T6m
HC: R	RQ: D2 V2
<i>Materials</i>	
SM: T1	EQ: S2 N2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U2 C2 W1 B1 E3	SA: S1
<i>Context</i>	
EC: M2 L4 C12,10	TC: A1 R1
SS: 3	SC: 5 ( 4y)
LMS: NA (0 %SE)	ASIC: 4243

**6190-B TRADES ASSISTANT, TELECOMMUNICATION**

Assists in installation, maintenance and fault clearing operation in less complex telecommunication internal plant.

Terminates cables and wires. Assembles, erects and positions items of plant. Modifies and adjusts relays and switch mechanisms. Installs and tests single point telephones, their accessories and less complex multipoint telephone and private manual branch exchange systems. Assists in the installation and modification of more complex multipoint telephone systems. Assists in fault clearing by replacing components. Performs routine maintenance duties. Monitors the performance of plant, and measures and records data.

May specialise in installing or servicing telephones and be designated accordingly, e.g.  
Telephone Installer Telephone Mechanic

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP: T6m
HC: R1	RQ: D2 V1 A2
<i>Materials</i>	
SM: T1	EQ: P2 S2 K2
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 U2 C2 S2 W2 E3	SA: S1 L2
<i>Context</i>	
EC: M2 L1 C07	TC: A1 I2 R2
SS: 3	SC: 4 ( 4y)
LMS: 1500-3000(0 %SE)	ASIC: 4122

**6190-C LINESMAN/WOMAN'S ASSISTANT**

Assists power linesman/woman with the installation, maintenance and repair of powerlines and associated equipment.

Uses hand or power operated tools and equipment to dig holes and ditches, mix concrete and install poles, earth stakes and footings for substations or other equipment. Fetches and supplies tools and equipment on the ground for power liners working at heights. Trims vegetation and assists in maintenance of power distribution network.

May progress to installing customer meters and time clocks. May assist other workers or perform other specialist duties and be designated accordingly, e.g.  
Cable Joints's Assistant Meter Fixer  
Substation Erector

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP: T2-6m
HC: R	RQ: D2 V2 A2
<i>Materials</i>	
SM: T1	EQ: S2 N2 M1

*Functions*

MA: D3 R4 L3

PA: U2 C2 H1 W1 B1 E3

SA: S1 L2

*Context*

EC: M2 L2 C10,12

TC: A1 I2 R1

SS: 3

SC: 5 (na)

LMS: NA (0 %SE)

ASIC: 4122

**6190-D TELECOMMUNICATION LINEMAN/  
WOMAN'S ASSISTANT**

Assists telecommunication lineman/woman in the installation, maintenance, repair and storage of telecommunication external plant and equipment.

Uses hand tools or mechanical equipment to dig holes and trenches. Lays conduits and constructs concrete manholes. Fetches tools and assists in the installation of cables and conduits, and the stringing of aerial wires. Erects safety barricades, restores condition of worksites, trims vegetation and maintains depot grounds. Assists in the receiving, handling and unpacking of stores and equipment.

May work as part of a field team involving various camp duties and the operation of plant and vehicles.

*Job Content Factors**Workers*

FP: GE10y

IP: T2m

HC: R

RQ: S2 D2 V2 A2

*Materials*

SM: T1

EQ: S1 N2 M1 V2

*Functions*

MA: D3 R4 L3

PA: U2 C2 H1 S2 W1 B2 E3

SA: S1 L2

*Context*

EC: M2 L2 C12

TC: A1 I2 R1

SS: 3

SC: 5 (4y)

LMS: NA (0 %SE)

ASIC: 4122

**6190-Z ELECTRICAL TELECOMMUNICATION  
TRADES ASSISTANTS nec**

This residual group covers other non-trade electrical and electronic assisting or support occupations not elsewhere classified in Unit Group 6190, e.g.

Television Antenna Installer Street Lighting Attendant

**6191 PROCESS WORKERS, ELECTRICAL AND ELECTRONIC EQUIPMENT**

This unit group covers process workers and assemblers concerned with fabricating and assembling electrical and electronic equipment, products and appliances.

**Entry Requirements** no formal entry requirements.

**Activities include** assembly line and process work such as locating, mounting and securing components in appliances and motors; positioning and securing cable assemblies, and attaching cables and other electrical components; tending and operating machines to wind coils for motors and generators; filling batteries with electrolyte; interconnecting parts and assemblies; and soldering leads to terminals.

**6191-A MACHINE OPERATOR, PROCESS  
WORK (ELECTRICAL AND  
ELECTRONIC EQUIPMENT)**

Operates and tends pre-set automatic, semi-automatic or single purpose machines which perform repetitive functions in the fabrication and assembly of electrical or electronic equipment, products and appliances.

Measures materials or components. Loads feeding mechanism. Stacks, positions or aligns components. Tends machine which transforms materials or components through such processes as bending, shaping, cutting, fusing, drilling or combining, by activating hand or foot controls. Monitors machine operation, reporting machine faults to supervisor. Refills or reloads machine. Removes and gathers processed items. Superficially inspects final product.

May operate computer-controlled machine. May use fixed or pre-set gauges to check product dimensions. May measure or examine a sample of the machine's product before initiating a full production run. May specialise in the operation of particular types of machines and be designated accordingly, e.g.

Coil Winding Machine Operator  
Riveting Machine Operator  
Calibrating Machine Operator

*Job Content Factors**Workers*

FP: NFR

IP: T1-2w

HC: R

RQ: D2 V2

*Materials*

SM: T1

EQ: S1 N2 M1 KV

*Functions*

MA: D3 R4 L3

PA: U1 C2 H1 S2 W1 E3

SA: S2 L2

*Context*

EC: L1 ,09,04

TC: A1 I2 R1

SS: 4

SC: 5 (2y)

LMS: NA (0 %SE)

ASIC: 335

**6191-B PROCESS WORKER, ELECTRICAL AND  
ELECTRONIC EQUIPMENT  
Assembler, Electrical and Electronic  
Equipment**

Assembles electrical and electronic equipment, products and appliances by performing a limited range of manual functions.

Following simple, standardised instructions and drawings, locates and positions components to be assembled on work bench. Assembles components by completing one or more tasks such as: selecting wire, cutting to required length; removing insulation from wire ends; bolting; screwing, riveting, crimping, glueing, soldering or spot welding wire and components in specified sequence using appropriate hand

tools; punching or drilling mounting holes in parts to be assembled; deburring and finishing items using files or emery paper.

May make minor variations to standard equipment to produce prototypes or special orders. May specialise in the manual winding of light electrical field coils and be designated accordingly, e.g.

Coil Winder, Light

**Job Content Factors**

<i>Workers</i>	
FP: NFR	IP: T1-2w
HC: R	RQ: D2 V2
<i>Materials</i>	
SM: T1	EQ: S2 N2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 H1 S2 W2 E3	SA: S2 L2
<i>Context</i>	
EC: L1 ,09	TC: A1 I2 R1
SS: 3	SC: 4 ( 0y)
LMS: NA (0 %SE)	ASIC: 335

**6191-C PROCESS WORKER, TESTING (ELECTRICAL AND ELECTRONIC EQUIPMENT)**  
**Examiner, Electrical and Electronic Equipment; Process Inspector, Electrical and Electronic Equipment; Viewer, Electrical and Electronic Equipment**

Performs simple tests on assembled electrical and electronic

equipment or components to ensure they meet manufacturing standards or customer specifications.

Uses pre-set or unadjustable measuring instruments, test equipment or basic hand tools to undertake one or more of the following operations: conducts visual inspection of items to detect inferior appearance, poor assembly or missing parts. Compares assembled products with standard parts list. Connects items to electrical or electronic test equipment, such as multimeters, voltmeters or signal generators, and monitors performance against predetermined standards. Checks operation under particular conditions such as unusual heat, cold or dampness, or heavy or prolonged load. Uses measuring instruments to check product specifications. Performs minor adjustments to faulty products using hand tools. Tags and separates more seriously flawed items for further analysis, reprocessing or rejection. Maintains records of defective items.

**Job Content Factors**

<i>Workers</i>	
FP: NFR	IP: T1-2w
HC: R	RQ: D2 V2
<i>Materials</i>	
SM: T1	EQ: S2 N1
<i>Functions</i>	
MA: D3 R4 M4 L3	
PA: U1 C2 H1 S2 W2 E2	SA: S2 L2
<i>Context</i>	
EC: L1 C08,09	TC: A1 I2 R1
SS: 3	SC: 5 ( 4y)
LMS: NA (0 %SE)	ASIC: 335

## **MAJOR GROUP 62**

### **WOODWORKING OCCUPATIONS**

Woodworking Occupations are classified in the following minor groups.

- 620 Wood Processing and Machining  
Occupations
- 621 Wood Products Fabricating, Assembling and  
Repairing Occupations
- 622 Pulp, Papermaking and Paper Product  
Fabricating Occupations

# 62 WOODWORKING OCCUPATIONS

## 620 WOOD PROCESSING AND MACHINING OCCUPATIONS

### 6200 FOREMEN/WOMEN, WOOD PROCESSING AND MACHINING OCCUPATIONS

6200-A Foreman/woman, General Sawmilling Operations  
6200-B Foreman/woman, Sawmilling Operations (Green Mill)  
6200-C Foreman/woman, Sawmilling Operations (Dry Mill)  
6200-D Foreman/woman, Timber Seasoning Operations  
6200-E Foreman/woman, Plywood Making and Related Operations  
6200-F Foreman/woman, Particleboard Manufacture  
6200-G Foreman/woman, Timber Treating Operations  
6200-H Foreman/woman, Hardboard Making and Related Operations  
6200-I Foreman/woman, Wood Machining (Joinery Manufacture)  
6200-J Foreman/woman Wood Machining, (Furniture Manufacture)  
6200-Z Foremen/women, Wood Processing and Machining Occupations nec

### 6201 WOOD MACHINING AND TURNING TRADE OCCUPATIONS

6201-A A Grade Wood Machinist  
6201-B Model Maker, Wood  
6201-C Woodworking Machine Line Setter  
6201-D Wood Turner

### 6202 WOOD MACHINING AND TURNING NON-TRADE OCCUPATIONS

6202-A B Grade Wood Machinist  
6202-B Automatic Wood Turning Lathe Operator  
6202-C Semi-automatic Wood Turning Lathe Operator

### 6203 SAWMILL SAWYERS AND RELATED OCCUPATIONS

6203-A Head Sawyer, Sawmill (Remote Control)  
6203-B Resaw Operator (Remote Control)  
6203-C Edgerman/woman (Remote Control)  
6203-D Head Sawyer  
6203-E Resawyer  
6203-F Dockerman/woman  
6203-G Timber Grader  
6203-H Stock Cutter (Timber Yard)  
6203-I Edgerman/woman

### 6204 PLYWOOD AND VENEER MANUFACTURING AND RELATED OCCUPATIONS

6204-A Centre Layer  
6204-B Veneer Clipper  
6204-C Plywood and Veneer Repairer  
6204-D Veneer Splicing Machine Operator  
6204-E Cross Feed Splicer Operator

### 6205 PARTICLEBOARD AND HARDBOARD MANUFACTURING OCCUPATIONS

6205-A Press Line Operator, Particleboard Manufacture  
6205-B Forming Line Operator, Particleboard Manufacture  
6205-C Wood Fibre Refining Machine Operator  
6205-D Forming Line Operator, Hardboard Manufacture  
6205-E Press Operator, Hardboard Manufacture  
6205-F Oil Tempering Machine Operator  
6205-Z Particleboard and Hardboard Manufacturing Occupations nec

### 6206 WOODWORKING MACHINE OPERATORS

6206-A Veneer Lathe/Slicer Operator  
6206-B Sanding Machine Operator  
6206-C Trim Saw Operator  
6206-D Sheet Thickness Tolerance Machine Operator  
6206-E Moulder Operator, Sawmill  
6206-Z Woodworking Machine Operators nec

### 6207 APPRENTICE WOOD MACHINING AND TURNING OCCUPATIONS

6207-A Apprentice Wood Machinist  
6207-B Apprentice Wood Turner

### 6209 OTHER WOOD PROCESSING AND MACHINING OCCUPATIONS

6209-A Press Operator (Wood Processing)  
6209-B Kiln Dryer Operator (Wood Processing)  
6209-C Kiln Operator (Wood Processing)  
6209-D Ovens and Humidifier Operator  
6209-E Glue Mixer  
6209-F Machine Stress Grader Operator  
6209-G Debarker Operator  
6209-H Drop-Sorter Operator  
6209-I Chipper Operator  
6209-J In-Feed Operator  
6209-K Leverman/woman  
6209-L Veneer Guillotine Operator  
6209-M Log Preparer  
6209-N Timber Treatment Plant Operator  
6209-O Timber Immunising Plant Operator  
6209-Z Wood Processing and Machining Occupations nec

## 621 WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS

### 6210 FOREMEN/WOMEN, WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS

6210-A Foreman/woman, Joinery Products Manufacture  
6210-B Foreman/woman, Furniture Manufacture  
6210-Z Foremen/women, Wood Products Fabricating, Assembling and Repairing Occupations nec

### 6211 CABINET-MAKERS, JOINERS AND RELATED OCCUPATIONS

6211-A Joiner, Detailed  
6211-B Joiner, Standard  
6211-C Setter Out  
6211-D Cabinet-Maker  
6211-E Chairmaker

### 6212 WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING TRADE OCCUPATIONS (OTHER)

6212-A Wood Carver  
6212-B Picture Framer  
6212-C Cooper  
6212-D Cane Furniture Maker  
6212-E Shipwright, Wood  
6212-F Furniture Finisher

### 6213 ASSEMBLERS, WOOD PRODUCTS

6213-A Joiner Assembler, A Grade  
6213-B Joiner Assembler, B Grade  
6213-C Furniture Assembler, First Class  
6213-D Furniture Assembler, Second Class  
6213-Z Assemblers, Wood Products nec

### 6214 APPRENTICE WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS

6214-A Apprentice Joiner  
6214-B Apprentice Shipwright, Wood  
6214-C Apprentice Cabinet-Maker  
6214-D Apprentice Wood Carver  
6214-E Apprentice Picture Framer  
6214-F Apprentice Cooper  
6214-G Apprentice Cane Furniture Maker  
6214-H Apprentice Furniture Finisher

### 6219 OTHER WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS

6219-Z Wood Products Fabricating, Assembling and Repairing Occupations nec

## 622 PULP, PAPERMAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS

### 6220 FOREMEN/WOMEN, PULP, PAPERMAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS

6220-A Foreman/woman, Pulp Preparing Occupations  
6220-B Foreman/woman, Papermaking and Finishing Occupations  
6220-Z Foremen/women, Pulp, Papermaking and Paper Product Fabricating Occupations nec

### 6221 PULP PREPARING OCCUPATIONS

6221-A Grinder Operator (Paper Pulp Preparation)  
6221-B Continuous Digester Operator (Paper Pulp Preparation)  
6221-C Screener Operator (Paper Pulp Preparation)  
6221-D Bleacher Operator (Paper Pulp Preparation)  
6221-E Beater Operator (Paper Pulp Preparation)  
6221-F Pulp Refiner Operator (Papermaking)  
6221-G Pulp Dryer Operator (Papermaking)  
6221-H Hydropulper Operator (Papermaking)  
6221-I Pulp Tester (Papermaking)  
6221-Z Pulp Preparing Occupations nec

### 6222 PAPERMAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS

6222-A Paper Machine Operator  
6222-B Paperboard Machine Operator  
6222-C Dryer Operator, Paper Machine  
6222-D Coating Machine Operator  
6222-E Supercalender Operator  
6222-F Winder Operator  
6222-G Rewinder Operator  
6222-H Cutter Operator (Paper)  
6222-I Paper Machine Hand  
6222-J Paper Tester  
6222-K Press Operator, Insulation Board  
6222-L Paper Product Fabricating and Assembling Machine Operator  
6222-Z Papermaking and Paper Product Fabricating Occupations nec

**MINOR GROUP 620**  
**WOOD PROCESSING AND MACHINING OCCUPATIONS**

Wood Product Processing and Machining Occupations are classified in the following unit groups.

- 6200 Foremen/women, Wood Processing and Machining Occupations
- 6201 Wood Machining and Turning Trade Occupations
- 6202 Wood Machining and Turning Non-Trade Occupations
- 6203 Sawmill Sawyers and Related Occupations
- 6204 Plywood and Veneer Manufacturing and Related Occupations
- 6205 Particleboard and Hardboard Manufacturing Occupations
- 6206 Woodworking Machine Operators
- 6207 Apprentice Wood Machining and Turning Occupations
- 6209 Other Wood Processing and Machining Occupations

**6200 FOREMEN/WOMEN, WOOD PROCESSING AND MACHINING OCCUPATIONS**

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in a variety of wood processing and machining operations.

**Entry Requirements** Year 10-11 and/or an appropriate trade qualification plus from 5-8 years' experience.

**Activities include** supervising and co-ordinating the activities of workers engaged in reducing logs to sawn and finished timbers; manufacturing plywood, particleboard and hardboard; treating and seasoning timbers; shaping wood into particular products by operating a variety of machines.

**6200-A**

**FOREMAN/WOMAN, GENERAL SAWMILLING OPERATIONS**

Supervises and co-ordinates the activities of workers engaged in the primary reduction of logs to sawn and dressed timber and related products.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular operation or activity and be designated accordingly, e.g.

Foreman/woman, Debarking Operations

Foreman/woman, Shaping Operations (Sawmill)

**Job Content Factors**

Workers

FP: GE10-11y PSP

or FP: GE10y PSP4y(T)

HC: RIE

IP: T6m E5-8y

IP: T1-2m E5y

RQ: U2 V1

Materials

SM: D2 P2 T1

EQ: S2 M2 K2

Functions

MA: A2 P1 D2 R3 M3 L2

PA: P2 U2 C2 S1 E2

SA: S2 L1 I2 B1 R2-3

**Context**

EC: L4 C09,02

SS: 7

TC: A1 T1

SC: 7 (vy)

LMS: NA (0 %SE)

ASIC: 253

**6200-B**

**FOREMAN/WOMAN, SAWMILLING OPERATIONS (GREEN MILL)**

Supervises and co-ordinates the activities of workers engaged in operating and tending sawing equipment to produce flitches, boards and other timber products from logs.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers in a particular area and be designated accordingly, e.g.

Foreman/woman, Logyard

Foreman/woman, Sorting and Stacking (Automatic)

Foreman/woman, Sorting and Stacking (Manual)

**Job Content Factors**

Workers

FP: GE10-11y PSP

or FP: GE10y PSP4y(T)

HC: RCE

IP: T6m E5-6y

IP: T1-2m E5y

RQ: U2 V1

<i>Materials</i>	
SM: D2 P2 T1	EQ: M2 K2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L2	
PA: P2 C2 S1 E2	SA: S1 L2 B1 R2-3
<i>Context</i>	
EC: L4 C09,02	TC: A1 T1
SS: 7	SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: 2531

### 6200-C FOREMAN/WOMAN, SAWMILLING OPERATIONS (DRY MILL)

Supervises and co-ordinates the activities of workers engaged in producing finished products from dried timber.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular operation or activity and be designated accordingly, e.g.

Foreman/woman, Chipping and Flaking Operations  
Foreman/woman, Finger Jointing Operations  
Foreman/woman, Laminated Beam Productions  
Foreman/woman, Moulding Mill

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-11y PSP or FP: GE10y PSP4y(T) HC: RCE	IP: T6m E5-10y IP: T3-6m E5-6y RQ: U2 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: M2 K2
<i>Functions</i>	
MA: P1 D2 R3 M3 L2	
PA: P2 C2 S1 E2	SA: S1 L2 B1 R2-3
<i>Context</i>	
EC: L4 C09	TC: A1 T1
SS: 7	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 253

### 6200-D FOREMAN/WOMAN, TIMBER SEASONING OPERATIONS Foreman/woman, Kiln Drying Operations

Supervises and co-ordinates the activities of workers engaged in the seasoning of green timber.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-11y PSP or FP: GE10y PSP4y(T) HC: RIE	IP: T6m E5-8y IP: T1-2m E5y RQ: V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S2 M2
<i>Functions</i>	
MA: P1 D2 R3 M3 L2	
PA: P2 S2 W2 E2	SA: S1 L1 B1 R3-4
<i>Context</i>	
EC: L4 C08,01	TC: A1 T1
SS: 7	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 2532

### 6200-E FOREMAN/WOMAN, PLYWOOD MAKING AND RELATED OPERATIONS

Supervises and co-ordinates the activities of workers engaged in operating and tending machines and equipment that peel, slice and glue, press and trim veneer, core and face sheets to produce veneer and plywood panels.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly.

#### *Job Content Factors*

<i>Workers</i>	
FP: GE10y PSP or FP: GE10y PSP4y(T) HC: REI	IP: T1y E6-10y IP: T1-2m E5-6y RQ: D2 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S2 M2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L2	
PA: U2 S2 W2 E2	SA: S1 L2 B1 R3-4
<i>Context</i>	
EC: L1 C09	TC: A1 T2
SS: 7	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 253

### 6200-F FOREMAN/WOMAN, PARTICLEBOARD MANUFACTURE

Supervises and co-ordinates the activities of workers engaged in operating and tending machines and equipment to produce finished particleboard sheets.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular operation or activity and be designated accordingly, e.g.

Foreman/woman, Finishing Line Operations (Particleboard Manufacture)  
Foreman/woman, Forming Line Operations (Particleboard Manufacture)  
Foreman/woman, Press Line Operations (Particleboard Manufacture)

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-11y PSP or FP: GE10y PSP4y(T) HC: RIE	IP: T6m E8-10y IP: T2m E5y RQ: V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S2 M2
<i>Functions</i>	
MA: P1 D2 R3 M3 L2	
PA: P2 S2 W2 E2	SA: S1 L1 B1 R3-4
<i>Context</i>	
EC: L4 C01,09	TC: A1 T1
SS: 7	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 253

### 6200-G FOREMAN/WOMAN, TIMBER TREATING OPERATIONS

Supervises and co-ordinates the activities of workers engaged in operating and tending equipment to prepare and treat timber products through impregnation and other means.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10-11y PSP6m(HD) / (B) or FP: GE10y PSP4y(T) HC: RIE	IP: T6m E5-8y IP: T1-2y E5y RQ: V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S2 M2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L2	
PA: P2 S1 E2	SA: S2 L2 B1 R3-4
<i>Context</i>	
EC: L3 C08,02	TC: A1 I2 T1
SS: 7	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 2531

### 6200-H FOREMAN/WOMAN, HARDBOARD MAKING AND RELATED OPERATIONS

Supervises and co-ordinates the activities of workers engaged in operating and tending machines and equipment to produce

finished hardboard sheets.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular operation or activity and be designated accordingly, e.g.

Foreman/woman, Finishing Line Operations (Hardboard Manufacture)

Foreman/woman, Press Line Operations (Hardboard Manufacture)

Job Content Factors

Workers

FP: GE10-11y PSP or FP: GE10y PSP4y(T)	IP: T6m E5-8y IP: T2m E5y
HC: RIE	RQ: V1

Materials

SM: D2 P2 T1	EQ: M2
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Functions

MA: P1 D2 R3 M3 L2 PA: S1 E2	SA: S1 L1 B1 R3-4
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Context

EC: L1 C09,04 SS: 7	TC: A1 T1 SC: 8 (vy)
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LMS: NA (0 %SE)

ASIC: 2533

6200-I FOREMAN/WOMAN, WOOD MACHINING (JOINERY MANUFACTURE)

Supervises and co-ordinates the activities of workers engaged in machining activities concerned with joinery manufacture.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Usually is a fully qualified A grade wood machinist.

Job Content Factors

Workers

FP: GE10y PSP4y(T)	IP: T2-6m E5y
HC: RIE	RQ: U2 V1

Materials

SM: D2 P2 T1	EQ: P1 S1 M1
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Functions

MA: A1 P1 D2 R3 M3 L2 PA: P1 C2 S1 W2 E2	SA: S1 L1 B1 R2-3
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Context

EC: L1 C02,04,09 SS: 7	TC: A1 T1 SC: 8 (vy)
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LMS: NA (0 %SE)

ASIC: 253

6200-J FOREMAN/WOMAN, WOOD MACHINING (FURNITURE MANUFACTURE)

Supervises and co-ordinates the activities of workers engaged in wood machining activities concerned with furniture manufacture.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Usually is a fully qualified A grade wood machinist.

Job Content Factors

Workers

FP: GE10y PSP4y(T)	IP: T2-6m E5y
HC: RIE	RQ: U2 V1

Materials

SM: D2 P2 T1	EQ: P1 S1 M1
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Functions

MA: A1 P1 D2 R3 M3 L2 PA: P1 C2 S1 W2 E2	SA: S1 L1 B1 R2-3
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Context

EC: L1 C02,04,09 SS: 5	TC: A1 T1 SC: 7 (vy)
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LMS: NA (0 %SE)

ASIC: 2541

6200-Z FOREMEN/WOMEN, WOOD PROCESSING AND MACHINING OCCUPATIONS nec

This residual group covers wood processing and machining occupations not elsewhere classified in Unit Group 6200, e.g. Dispatch Foreman/woman, Sawmill

6201 WOOD MACHINING AND TURNING TRADE OCCUPATIONS

This unit group covers occupations concerned with setting up, operating and maintaining woodworking machines.

**Entry Requirements** a trade qualification in wood machining.

**Activities include** operating machines that saw, sand, plane, trim, shape, mill, rout, mortice or drill wooden workpieces.

6201-A A GRADE WOOD MACHINIST

Sets up, operates and maintains a wide variety of woodworking machines, such as saws, planers, routers, tenoners and sanders to cut, plane, shape and sand wood stock to specifications.

Studies drawings, work order or sample part to determine specifications. Selects and installs appropriate knives, saws, drill bits or cutter heads on drum, spindle or in chuck of machine, and balances cutter heads, using hand tools. Maintains edge on cutters. Attaches or installs guides, fixtures or jigs to table or bed of machine with clamps or bolts, and turns handwheels and moves levers to adjust stops, guides and

angle and height of table. Adjusts feed rollers or tailstock as required. Selects direction and speed of rotations of workpiece to produce smoothest finish. Starts machine to produce items and feeds stock into machine or observes automatic feed mechanism. Verifies conformity of work with specifications and adjusts machine as necessary.

May specialise in setting up machines for use by other workers or making up jigs and be designated accordingly, e.g.

- Automatic Profile Sander Operator
- Double-End Tenoner Operator
- Copy Lathe Operator
- Jig Maker (Wood)
- Panel Saw Operator
- Woodworking Machine Setter
- Edge Bander Operator
- Program Router Operator

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4-5y(T)	IP:
HC: RI	RQ: U1 D2 V1
<b>Materials</b>	
SM: D1 T1	EQ: P2 S1 M1
<b>Functions</b>	
MA: A1 D2 R3 M3 L2	
PA: P1 C1 H1 W1 E3	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1 C02,04,09	TC: A1
SS: 5	SC: 6 (vy)
LMS: 3000-3500(0 %SE)	ASIC: 25

**6201-B MODEL MAKER, WOOD**

Constructs full size or scale wooden models of production line items, such as machinery, household appliances, transportation equipment, furniture and toys.

Selects wooden stock and marks layout of parts using precision equipment, such as scribes, squares, protractors, plates, height gauges and scale, and by following drawings, drafts or samples. Operates band-saws, lathes, planers, routers and other woodworking machines to cut and shape timber, forming outline of parts. Fastens wooden parts together with dowels, glue, nails, bolts, screws and other fasteners. Planes, shaves, files, scrapes and sands model during handforming process, using templates and measuring devices. Makes work aids, such as scrapers or templates for own use.

May wax and polish finished model. May construct plastic or metal models, or assemble metal parts, made to specification by machine shop, using hand and power tools, bolts, screws and measuring instruments.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE10y	IP: T3-5y
HC: RAI	RQ: V1
<b>Materials</b>	
SM: D1 T1	EQ: P1 S1 M1
<b>Functions</b>	
MA: P2 D2 R3 M3 L2	
PA: P1 C2 W1 E2	SA: S1
<b>Context</b>	
EC: L1 C02,09,10	TC: A1 T2
SS: 6	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 253,31,32,33

**6201-C WOODWORKING MACHINE LINE SETTER****Line Setter, Woodworking Machines**

Sets up and maintains a line of woodworking machines.

Analyses specifications, drawings and shape of workpiece(s) to determine tooling and machinery requirements and sequence of operations, using knowledge of wood properties, machining methods and computations. Sets cutters using hand tools and

measuring devices. Selects and sets feed rate, cutting speed and dimensions of cut. Observes operation in case of defects and makes adjustments if necessary.

May operate machine(s) or supervise operators.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4-5y(T)	IP:
or FP: GE10y	IP: T6m E3-6y
HC: RIE	RQ: U1 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P1 S1 M1
<b>Functions</b>	
MA: A1 D2 R3 M3 L2	
PA: P1 C1 H1 W1 E2	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1 C02,04,09	TC: A1 T2
SS: 5	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 25

**6201-D WOOD TURNER**

Operates wood turning lathe to turn and shape wood stock by holding chisel against rotating stock.

Studies drawing or reads work order or specifications to determine set-up data. Positions wood stock between spur centre in headstock spindle and tail centre in tailstock, and turns handwheel to force centres into stock. Adjusts turning speed according to size of work by changing belt positions or by turning speed control handwheel. Positions and clamps tool rest. Starts machine. Places gauge chisel on tool rest, in contact with stock, and moves gauge to reduce square stock to rough cylinder. Lays out cutting lines according to drawing, using scale and pencil. Resets speed control at speed appropriate to diameter of workpiece. Selects chisel and places it against rotating workpiece to cut shapes. Verifies dimensions, using callipers and scale.

May smooth surface of work by holding sandpaper against rotating workpiece. May apply wax or other finishes to workpiece.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
HC: RA	RQ: V1
<b>Materials</b>	
SM: D1 T1	EQ: S1 M1
<b>Functions</b>	
MA: A2 D2 R3 M3 L2	
PA: P2 U1 C1 H1 W1 E2	SA: S2 L2
<b>Context</b>	
EC: L1 C02,04,09	TC: A1
SS: 5	SC: 6 (vy)
LMS: NA (10%SE)	ASIC: 2538

**6202 WOOD MACHINING AND TURNING NON-TRADE OCCUPATIONS**

This unit group covers occupations concerned with setting up, operating and maintaining less complex woodworking machines.

**Entry Requirements** Year 9-11.

**Activities include** setting up and operating less complex machines that saw, sand, plane, mill, mortice, or drill wooden workpieces.

**6202-A B GRADE WOOD MACHINIST**

Sets up, operates and maintains a variety of less complex woodworking machines.

Performs similar duties to 6201-A A GRADE WOOD MACHINIST but in relation to less complex machines such as buzzers, planers, saws and sanders.

May operate complex woodworking machines which have been set up by an A grade wood machinist.

**Job Content Factors****Workers**

FP: GE9-10y IP: T6-12m  
HC: R1 RQ: V1

**Materials**

SM: D1 T1 EQ: S2 M1

**Functions**

MA: A2 D2 R3 M3 L3  
PA: P2 U1 C1 H1 W1 E3 SA: S2 L2

**Context**

EC: L1 C02,04,09 TC: A1  
SS: 3 SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 25

**6202-B AUTOMATIC WOOD TURNING LATHE OPERATOR**

Sets up, operates and maintains multicutter lathe which turns and shapes wood stock.

Grinds knives to template supplied. Places knives into machine. Balances machine and cutters. Fits hoppers so that stock is delivered to workpiece. Starts machines. Observes operations and quality of cut and finish. Hones knives when required. Removes finished article from machine.

**Job Content Factors****Workers**

FP: GE10-11y IP: T3-6m  
HC: R RQ: V1

**Materials**

SM: D1 T1 EQ: S1 M1

**Functions**

MA: D3 R4 M3 L3

PA: U1 C1 H1 W1 E2

SA: S2 L2

**Context**

EC: L1 C02,04,09

TC: A1

SS: 3

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 25

**6202-C SEMI-AUTOMATIC WOOD TURNING LATHE OPERATOR**

Sets up, operates and maintains semi-automatic moving single-cutter lathe which turns and shapes stock.

Studies drawing or reads work order or specification to prepare a profile of work to be performed. Positions wood stock between spur centre in headstock spindle and tail centre in tailstock, and turns handwheel to force centres into stock. Sets turning speed or changes belts or pulleys, according to size of job. Manually positions tool at starting point and determines cut-off points. Determines feed speed of stylus cutting head. Manually turns a sample piece. If satisfactory, adjusts controls of machine for semi-automatic cutting. Starts machine and observes quality of cut and finish. After second cut has commenced, may carry out hand sanding operation while second cut is proceeding. Stops machine and removes finished product.

May apply manually the stationary chisels for further specialised turning or cut-off operations.

**Job Content Factors****Workers**

FP: GE10y IP: T2y  
HC: R1 RQ: V1

**Materials**

SM: D1 T1 EQ: S1 M1

**Functions**

MA: D3 R4 M3 L3

PA: U1 C1 H1 W1

SA: S1 L1

**Context**

EC: L1 C02,04,09

TC: A1

SS: 3

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 25

**6203 SAWMILL SAWYERS AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with operating saws by remote control from a central booth, and operating and tending timber-mill equipment to process logs and reprocess sawn timber.

**Entry Requirements** Year 10-11 and in some cases up to 5 years' related work experience.

**Activities include** operating log in-feed and conveyor systems; controlling head saws, resaws and multiblade saws to saw logs, cants, flitches, slabs or wings and remove rough edges from sawn timber; resawing, removing defective pieces from sawn and planed timber, and planing sawn timber into stock of various lengths and thicknesses.

characteristics of log. Responds to computer instructions indicating optimum cuts to obtain best timber production. Operates panel buttons and levers to control log loading, positioning and sawing. Directs cants or flitches and wings to other machines.

May keep production records. May change saw blades. May operate similar equipment to rip logs into smaller size for chipping or slashing in pulp mill wood room. May operate machine that saws logs into cants and simultaneously reduces

**6203-A HEAD SAWYER, SAWMILL (REMOTE CONTROL)**

Operates log-in feed system and controls head saw from control panel in stationary booth to saw logs into cants or boards and other primary break-down products.

Controls conveyor bringing log into sawing shed for transfer to sawing carriage. Operates visual display unit to display computerised data regarding condition, size, grade and other

cuttings into wood chips. May specialise in particular type of remote control sawing equipment and be designated accordingly, e.g.

Head Sawyer, Band-Saw (Remote Control)  
Head Sawyer, Circular Saw (Remote Control)  
Head Sawyer, Gang Saw (Remote Control)

#### Job Content Factors

##### Workers

FP: GE10- 9y IP: T3-6m  
or FP: GE10y IP: T1-2y E3-5y  
HC: RCI RQ: V1

##### Materials

SM: D1 T1 EQ: S2 K1

##### Functions

MA: A2 P2 D2 R4 M3 L3  
PA: P1 C2 S1 E2 SA: A2 S2

##### Context

EC: L1 C09,04 TC: A1 R2  
SS: 6 SC: 6 (vy)

LMS: NA (0 %SE) ASIC: 253

### 6203-B RESAW OPERATOR (REMOTE CONTROL)

Operates conveyor system and saw(s) from control panel in stationary booth to convert cants, flitches or slabs and wings into sawn timber.

Performs similar duties to 6203-A HEAD SAWYER, SAWMILL (REMOTE CONTROL), working with cants, flitches and slabs or wings rather than logs.

May keep production records. May change saw blades. May operate equipment which simultaneously reduces cuttings into wood chips. May specialise in particular type of remote control resawing equipment and be designated accordingly, e.g.

Resawyer, Band-Saw (Remote control)  
Resawyer, Circular Saw (Remote Control)  
Resawyer, Gang Saw (Remote Control)

#### Job Content Factors

##### Workers

FP: GE10- 9y IP: T3-6m  
or FP: GE10y IP: T6-12m E1-2y  
HC: RC RQ: V1

##### Materials

SM: D1 T1 EQ: S2 K1

##### Functions

MA: D2 R4 M3 L3  
PA: P1 C2 S1 E2 SA: A2 S2

##### Context

EC: L1 C09,04 TC: A1 R1  
SS: 4 SC: 6 (vy)

LMS: NA (0 %SE) ASIC: 253

### 6203-C EDGERMAN/WOMAN (REMOTE CONTROL)

Operates multiblade sawing machine from control panel in stationary booth to remove rough edges from timber and to saw timber boards to specified width.

Performs duties of 6203-A HEAD SAWYER, SAWMILL (REMOTE CONTROL) using unedged boards.

May keep production records. May change saw blades. May operate equipment which simultaneously reduces cuttings into wood chips. May specialise in operating a particular type of remote control edging equipment.

#### Job Content Factors

##### Workers

FP: GE10- 9y IP: T3-6m  
HC: RC RQ: V1

##### Materials

SM: D1 T1 EQ: S2 K1

#### Functions

MA: D3 R4 M3 L3  
PA: P1 C2 S1 E2 SA: A2 S2

#### Context

EC: L1 C09,04 TC: A1 R1  
SS: 3 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 253

### 6203-D HEAD SAWYER Breakdown Sawyer

Operates circular saws to reduce logs to cants and/or flitches.

Aligns log for cutting on log carriage and adjusts depth of cut by pulling adjusting lever. Starts saw by pushing starter buttons which carries log into circular saw blade. Realigns uncut portion of log and repeats sawing operation. Makes safety checks on sawing equipment. Changes saw blades when required.

May keep production records. May be required to assess quality of log and saw accordingly. May use various type of saws and be designated accordingly, e.g.

Head Sawyer, Band-Saw Head Sawyer, Gang Saw

#### Job Content Factors

##### Workers

FP: GE10- 9y IP: T3-6m  
or FP: IP: T1-2y E3-5y  
HC: RI RQ: V1

##### Materials

SM: D1 T1 EQ: S1 M1

##### Functions

MA: A1 P2 D2 R3 M3 L3  
PA: U1 C1 H1 W1 E4 SA: S1

##### Context

EC: L4 C02,09,04 TC: A1 R2  
SS: 6 SC: 6 (vy)

LMS: NA (0 %SE)

ASIC: 253

### 6203-E RESAWYER Resaw Operator

Operates band-saws and/or circular saws, and directs activities of workers engaged in converting wings and/or flitches into sawn timber.

Aligns cants, flitches and wings on carriage and adjusts cutters to specified dimensions. Pulls lever to operate conveyor carriage which carries timber into contact with saw blades. Realigns uncut portions and repeats sawing operation. Changes saw blades when requested.

May keep production records. May use various types of saws and be designated accordingly, e.g.

Cant Gang Sawyer Ripsaw Operator

#### Job Content Factors

##### Workers

FP: GE10- 9y IP: T3-6m E0-1y  
HC: R RQ: V1

##### Materials

SM: D2 T1 EQ: S1 M1

##### Functions

MA: D2 R3 M3 L3  
PA: U1 C1 H1 W1 E4 SA: S1

##### Context

EC: L4 C02,09,04 TC: A1 R1  
SS: 4 SC: 6 (vy)

LMS: NA (0 %SE)

ASIC: 253

### 6203-F DOCKERMAN/WOMAN Docker; Docking Sawyer; Trimmer (Wood)

Operates saw or bank of saws to cut defective sections from boards and/or to trim boards to specified length.

Visually scans boards as they move along conveyor to saws, to determine cuts that will produce the required grade of timber. Moves levers or pushes buttons to raise or lower one or more saws to trim boards to remove defects, such as rot and splits.

**Job Content Factors**

<b>Workers</b>	
FP: GE10- 9y	IP: T1-3m E0-1y
HC: R	RQ: V1
<b>Materials</b>	
SM: T1	EQ: S1 M1
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: U1 C1 H1 W1 E3	SA: S1
<b>Context</b>	
EC: L4 C02,04,09	TC: A1 R1
SS: 4	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 253

**6203-G TIMBER GRADER**

Inspects and grades green milled timber and seasoned unmachined timber according to company and industry standards.

Selects or marks timber of a specific size, length, profile, quality or quantity. Examines and sorts out defects, such as knots, wormholes, pitch pockets, heartwood, stains, poor sawing quality and unsatisfactory milling.

May measure dimensions of boards using callipers or gauge. May remove unsatisfactory pieces from conveyor. May scale board meterage and record results. May be designated according to type of timber graded, e.g.

Dry Mill Timber Grader      Green Mill Timber Grader

**Job Content Factors**

<b>Workers</b>	
FP: GE10- 9y	IP: T2-4w E6m
HC: RIC	RQ: V1
<b>Materials</b>	
SM: D2 T1	EQ: S2
<b>Functions</b>	
MA: A1 D2 R3 M3 L2	
PA: U1 H1 B1 E2	SA: S1 L2
<b>Context</b>	
EC: L4 C02,09	TC: A1 R1
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 2531

**6203-H**

**STOCK CUTTER (TIMBER YARD)**  
**Timber Yard Saws Operator**

Operates saws to cut timber, particleboard and plywood according to customer's order or to given specifications. Selects kind and grade of wood specified on work order or is supplied with timber selected by another worker. Measures and marks timber, or sets and adjusts guide fence, to produce size stipulated in specifications, using rule and square. Cuts timber to specified length using circular saw. Replaces worn or defective saw blades using hand tools.

May feed wood stock through planing machine to smooth edges.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T1-3m
HC: RC	RQ: V1
<b>Materials</b>	
SM: D2 T1	EQ: S1 M1
<b>Functions</b>	
MA: D2 R3 M3 L3	
PA: U1 C1 H1 W1 E4	SA: S1
<b>Context</b>	
EC: L4 C02,04,09	TC: A1 R1
SS: 5	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 472,485

**6203-I**

**EDGERMAN/WOMAN**

Operates multiblade saws to remove rough edges of timber and to saw timber boards to specified width.

Positions unedged board on edger table and adjusts saws to give optimum width. Pushes lever to bring board into contact with saw blade.

May start and stop conveyors to control flow of wood to edger table. May change saw blades and guides.

**Job Content Factors**

<b>Workers</b>	
FP: GE10- 9y	IP: T1-3m E6m
HC: R	RQ: V1
<b>Materials</b>	
SM: D2 T1	EQ: S1 M1
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: U1 C1 H1 W1 E4	SA: S1
<b>Context</b>	
EC: L4 C02,04,09	TC: A1 R1
SS: 4	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 253

**6204 PLYWOOD AND VENEER MANUFACTURING AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with operating machines and equipment to produce plywood panels and veneer sheets.

**Entry Requirements** usually up to 1 year's related work experience.

**Activities include** operating glue mixing and spreading machines; assembling plywood panels; operating veneer splicing and clipping machines; and repairing plywood panels and veneer sheets.

6204-A CENTRE LAYER

Operates machine that spreads glue on veneer core sheets, and assembles plywood panels from glue-covered core board and veneer sheets.

Turns valve on glue reservoir to start flow of glue onto rollers. Stacks veneer sheets and core board alternately in specified sequence on lay-up board, turning back and face sheets to ensure that the preferred surfaces will be on outside of finished panel. Stops glue spreader machine when core sheets jam or when adding glue. Adjusts space between rollers and amount of glue flow when thickness of veneer changes.

May move stack of panels to press when specified number of panels have been assembled.

Job Content Factors	
Workers	
FP: GE NFR	IP: T1-3m E6-12m
HC: R	RQ: D1 V2
Materials	
SM: T1	EQ: M1
Functions	
MA: D3 R4 L3	SA: S1
PA: U2 H2 W1 E4	
Context	
EC: L1 C09,02	TC: A1 I1 R1
SS: 3	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 253

6204-B VENEER CLIPPER

Operates power shear to clip sheet of veneer to specified width and to clip out defects. Places veneer strips or sheets singly or in bundles, or feeds veneer from reel onto clipper table. Positions veneer under clipper blade according to measurement or pre-set stops. Operates pedals, levers or buttons to release blade locking device and to activate blade. Slides veneer on table or turns handwheel to reposition table under blade after each cut, until veneer is clipped to size or free of defects. Stacks clipped veneer for further processing.

May match veneer strips according to species of wood, grain, pattern, texture and shade to form veneer face sheets.

Job Content Factors	
<i>Workers</i>	
FP: GE NFR	IP: T2-6m E6-12m
HC: RA	RQ: D2 V1
<i>Materials</i>	
SM: T1	EQ: S1 M1
<i>Functions</i>	
MA: D2 R3 L3	
PA: P2 U1 C2 H2 W1 E3	SA: S1
<i>Context</i>	
EC: L1 C09,04,02	TC: A1 I2 R2
SS: 3	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 253

6204-C PLYWOOD AND VENEER REPAIRER

Inspects veneer sheets or plywood panels for defects such as splits, knot holes, hairline cracks, torn grain and pitch pockets, and determines and effects repair when required manually or by operating machines, performing any combination of the following duties.

Inserts patching stock into machine. Slides defective area of sheet under head of machine and activates machine to punch out defect, inject glue into hole, punch out patch from patching stock and press cut patch into glued hole. Fills minor splits and cracks by applying colour matched plastic filler using a putty knife or tapes edges of split together. Places sheet on illuminated, glass-topped work bench to aid detection of minor splits, cracks and other flaws. Moves sheet so that defect is over metal section of bench and using a

mallet or air hammer taps sheet lightly in both sides of split until split is closed. Applies tape or glue coated fibre thread over repair to keep split closed. If overlap exists at split uses hand tools to remove overlapping segment and then carries out forementioned procedure.

May grade repaired panels. May patch defective sheets using hand tools. May set up and perform basic maintenance duties on machines.

Job Content Factors	
Workers	
FP: GE NFR	IP: T3-6m E6-12m
HC: R	RQ: D1 V1
Materials	
SM: T1	EQ: P2 S1 M1
Functions	
MA: D2 R3 L3	
PA: U1 C2 H2 W1 E3	SA: S1
Context	
EC: L1 C09,04,02	TC: A1 I2 R2
SS: 3	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 253

6204-D VENEER SPLICING MACHINE OPERATOR

Operates machine that tapes or "sews" veneer strips to form veneer face or core sheets.

Matches pre-cut veneer strips according to species of wood, grain, pattern, texture and shade. Feeds strips into machine which tapes or "sews" strips together, by applying glue and fibre thread in a wave pattern across back of join to form decorative veneer face sheets. Reprocesses spliced strips to form sheet of required size.

Job Content Factors	
Workers	
FP: GE NFR	IP: T1-2m E6-12m
HC: R	RQ: D2 V1
Materials	
SM: T1	EQ: S1 M1
Functions	
MA: D2 R4 L3	
PA: U1 C2 H2 W1 E3	SA: S1
Context	
EC: L1 C09	TC: A1 I2 R1
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 253

6204-E CROSS FEED SPLICER OPERATOR

Assembles veneer sheets using glue spray-gun and tends machine that splices veneer strips into sheets.

Applies glue to edge of strips of veneer and feeds strips of veneer, edge to edge, into machine that forces pieces together and cures glued edges. Examines spliced veneer sheets for conformity with specifications, and turns hand controls to regulate heat, pressure of feed rollers and speed of machine.

May reprocess spliced sheets to produce sheets of larger size.

Job Content Factors	
Workers	
FP: GE NFR	IP: T1-3m
HC: R	RQ: D1 V1
Materials	
SM: T1	EQ: S2 M1
Functions	
MA: D3 R4 L3	
PA: U1 C2 H2 W1 E3	SA: S1
Context	
EC: L1 C09,02	TC: A1 I2 R2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 253

## 6205 PARTICLEBOARD AND HARDBOARD MANUFACTURING OCCUPATIONS

This unit group covers occupations concerned with operating machines and equipment to produce particleboard and with setting up, operating and maintaining line systems and equipment to manufacture hardboard.

**Entry Requirements** Year 10-11 and up to 1 year's related work experience.

**Activities include** setting up and operating presses and glue mixing, chip blending and mattress spread equipment to manufacture particleboard sheets; operating heat presses, treatment ovens, humidifiers and other equipment to reduce wood chips to wood fibre and press mats into hardboard sheets; reducing sheets to specified thickness and treating hardboard with chemicals to improve its properties and characteristics.

### 6205-A PRESS LINE OPERATOR, PARTICLEBOARD MANUFACTURE

Sets up, operates and maintains press and ancillary equipment used in the manufacture of particleboard sheets.

Starts conveyors, hydraulic press, board cooler and automatic sizing saws by pressing buttons. Synchronises timing of feeding and unloading conveyors with elevator movement of tiered hydraulic press, by adjusting dials and moving switches. Adjusts press temperature, pressure and pressing time according to readings obtained from indicating devices, such as charts, meters and gauges, to press mats of wood particles into panels. Observes condition of mats and pressed boards, and signals other workers to adjust moisture content of mats as required.

May change spacer bars.

#### Job Content Factors

##### Workers

FP: GE10-11y IP: T6-12m  
HC: RI RQ: D2 V1

##### Materials

SM: D1 T1 EQ: S2 M1

##### Functions

MA: D2 R3 M3 L3  
PA: U1 C1 W1 E2 SA: S1

##### Context

EC: L1 C02,09 TC: A1 R1  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 2533

### 6205-B FORMING LINE OPERATOR, PARTICLEBOARD MANUFACTURE Glue Room Operator, Particleboard Manufacture

Sets up, operates and maintains plant and ancillary equipment involved in glue mixing, chip blending and mattress spreading in the manufacture of particleboard sheets.

Starts forming machine and/or glue blender and associated conveyors by pressing buttons on control panel. Observes gauges, charts and other indicating devices that monitor forming process and flow of particles into machine. Adjusts control dials to regulate air pressure in forming machine and glue blender. Observes weight-scale dial that indicates weight of each mat before pressing, and adjusts thickness of mat, as indicated by weight, by regulating rate of conveyor feed.

#### Job Content Factors

##### Workers

FP: GE10-11y IP: T6-12m  
HC: RI RQ: V1

#### Materials

SM: D1 T1 EQ: S1 M1

#### Functions

MA: D2 R3 M3 L3  
PA: P2 U1 C1 W1 E3 SA: S1

#### Context

EC: L1 C02,09 TC: A1 R1  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 253

### 6205-C WOOD FIBRE REFINING MACHINE OPERATOR Defibrator Attendant

Operates and controls refining plant to reduce wood chips to wood fibre used in making hardboard.

Adjusts grinding machine. Presses buttons on control panel to start machines and conveyors. Regulates steam pressure, cooking temperature and flow of water and wax by turning valves on control panel and storage tanks. Observes cooking and grinding, and flow of chips into machines. Monitors meters, gauges and charts that indicate pressure, temperature and flow to ensure that material is processed according to specifications. Adjusts process from control panel.

May test samples of fibre for freeness using standard testing procedures.

#### Job Content Factors

##### Workers

FP: GE10y IP: T10-26w E3m  
HC: R RQ: V1

##### Materials

SM: D1 T1 EQ: S2 M1 K2

##### Functions

MA: D2 R3 M3 L3  
PA: U1 C1 W1 E3 SA: S1

##### Context

EC: L1 C02,09 TC: A1 R1  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 253

### 6205-D FORMING LINE OPERATOR, HARDBOARD MANUFACTURE Forming Machine Attendant, First Class

Supervises, operates and adjusts line of machines which produce a wet mat of wood fibre at the required weight and quality for pressing into hardboard.

Pushes buttons to activate forming machines. Observes gauges and turns valves to regulate flow of water and additives to process. Observes forming and cutting of mat. Adjusts controls to ensure product is of specified dimension and quality. Maintains production records.

**Job Content Factors****Workers**

FP: GE10y IP: T10w E3m  
HC: R1 RQ: V1

**Materials**

SM: D1 T1 EQ: M1

**Functions**

MA: D2 R4 M3 L3  
PA: U1 C1 W1 E3 SA: S1

**Context**

EC: L1 C02,09 TC: A1 R1  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 2533

**6205-E PRESS OPERATOR, HARDBOARD MANUFACTURE**

Operates press and ancillary equipment which applies heat and pressure in a strictly controlled sequence to consolidate and bond hardboard mats into finished hardboard sheets.

Controls loading and offloading equipment surrounding press. Observes quality of product and makes adjustments to equipment operation as required. Records process data. Feeds back information regarding quality to forming line operator. Cleans transport plates using machinery.

**Job Content Factors****Workers**

FP: GE10y IP: T10w E3m  
HC: R RQ: V1

**Materials**

SM: D2 T1 EQ: M1

**Functions**

MA: D3 R4 L3  
PA: U1 C1 W1 E2 SA: S1

**Context**

EC: L1 C02,09,01 TC: A1 R1  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 2533

**6205-F****OIL TEMPERING MACHINE OPERATOR**

Operates and controls equipment that immerses hardboard sheets in oil to improve water absorption properties and increase strength characteristics.

Opens valves and starts pumps to fill reservoir with heated oil. Starts automatic feeding and stacking machines. Monitors operation and makes adjustments when required. Cleans oil machine.

**Job Content Factors****Workers**

FP: GE10y IP: T6w E3m  
HC: R RQ: V1

**Materials**

SM: T1 EQ: M1

**Functions**

MA: D3 R4 L3  
PA: U1 C1 W1 E2 SA: S1

**Context**

EC: L1 C02,09,01 TC: A1 R1  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 2533

**6205-Z****PARTICLEBOARD AND HARDBOARD MANUFACTURING OCCUPATIONS nec**

This residual group covers all other particleboard and hardboard manufacturing occupations not elsewhere classified in Unit Group 6205, e.g.

Chip Preparation Operator, Particleboard Manufacture  
Edge Lipping Machine Operator, Particleboard Manufacture  
Laminator Operator, Particleboard Manufacture  
Log Handler  
Saws Operator, Hardboard Manufacture  
Saws Operator, Particleboard Manufacture  
Veneer Line Operator, Particleboard Manufacture

**6206 WOODWORKING MACHINE OPERATORS**

This unit group covers occupations concerned with operating rotary lathes, sanding machines and ancillary equipment, saw machines, large planing or sanding machines and other woodworking machines.

**Entry Requirements** Year 10 and up to 2 years' experience.

**Activities include** operating and attending less complex machines that saw, plane, sand, turn, shape, mill, rout, mortice or drill wooden work pieces.

**6206-A VENEER LATHE/SLICER OPERATOR**

Operates rotary lathe or slicing machine to produce veneer from logs or flitches (squared log sections).

Adjusts machines to peel or slice veneer to specified thickness by setting knives, pressure bars and gears as required. Assisted by labourers, positions log between chucks of lathe and drives chucks into log or positions flitch with selected grain patterns toward knife. Starts machine and controls turning speed of lathe to square log and maintain even peeling according to the conditions of the log or to slice veneer from flitches. Verifies thickness using gauge or callipers and adjusts machines accordingly. Moves blade away from log or flitch

when cutting is completed or when machine becomes clogged. Releases peeled log from lathe chucks. Replaces dull or damaged knives and other parts using hand tools.

**Job Content Factors****Workers**

FP: GE10y IP: T3-6m E1-2y  
HC: RIC RQ: D2 V1

**Materials**

SM: D2 P2 T1 EQ: P2 S1 M1

**Functions**

MA: D2 R3 M3 L3  
PA: P2 U2 C2 W1 E4 SA: S1

## Context

EC: L1 C09,02  
SS: 3

TC: A1 I1  
SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 253

**6206-B SANDING MACHINE OPERATOR**

Operates one or more sanding machines and ancillary equipment to smooth plywood or other panels to predetermined dimension tolerance and quality standards.

Observes gauges and adjusts depth of cut. Starts drums or headrolls, drum oscillators and feed rollers. Synchronises speed of feed rollers. Pushes buttons, turns handwheels and observes meters to adjust pressure of drums, belts or platens. Aligns feed roller and drums, or belt rollers, platen and contact bars to produce even thickness of panel. Inspects and replaces worn sandpaper or sanding belts, and maintains supply of abrasive materials. Records maintenance and production details. Brands panels according to company and Standards Association of Australia specifications. Cleans machines.

May replace worn parts using hand tools.

## Job Content Factors

## Workers

FP: GE10y IP: T2m E6m  
HC: RIC RQ: D2 V1

## Materials

SM: D1 T1 EQ: M1

## Functions

MA: A2 D3 R3 M3 L3  
PA: P2 U2 C1 H1 W1 E3 SA: S1 L1

## Context

EC: L1 C02,04,09 TC: A1 I2 R1  
SS: 4 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 253

**6206-C TRIM SAW OPERATOR**

Operates multiblade saw machine that trims pressed board or plywood panels to specified dimensions.

Sets guides and saws to required dimensions of panel, using rule and hand tools. Starts machine and places panel on feed bed against guide. Pushes panel until engaged by feed rollers, belt, or pawls of feed chain. Measures panels for conformity with specified dimensions. Adjusts saws or guides as required. Replaces dull saw blades. Prepares production reports.

## Job Content Factors

## Workers

FP: GE10y IP: T2m E6m  
HC: RI RQ: V1

## Materials

SM: D2 T1 EQ: M1

## Functions

MA: D3 R3 M3 L3  
PA: U1 C1 H1 W1 E3 SA: S1 L1

## Context

EC: L4 C02,04,09 TC: A1 I2 R1  
SS: 4 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 253

**6206-D SHEET THICKNESS TOLERANCE MACHINE OPERATOR**  
**Buss Planer Operator**

Operates large sanding or planing machines to reduce hardboard sheets to tolerance thickness.

Adjusts machine to give desired thickness. Reads gauge to ensure that the result is within the tolerances specified. Controls board quality from this process. Identifies defects produced by machine and directs problem to maintenance staff.

## Job Content Factors

## Workers

FP: GE10y IP: T4w  
HC: R RQ: V1

## Materials

SM: D2 T1 EQ: M1

## Functions

MA: D3 R3 M3 L3  
PA: U1 C1 H1 W1 E3 SA: S1

## Context

EC: L1 C02,09 TC: A1 I2 R1  
SS: 4 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 2533

**6206-E MOULDER OPERATOR, SAWMILL**  
**Planer Operator, Sawmill**

Operates planing and/or moulding machines to dress dry timber to specified dimensions or profiles.

Installs cutting heads on machine drive spindles and adjusts knives' exposure according to specified depth of cut, using wrenches and gauges. Adjusts feed roll tension and positions fences that guide stock between cutter heads. Starts machine, exhaust blower and conveyors, and slides timber against guide to align it on feed rolls. Verifies dimensions or profile and quality of finish of sized stock using gauge or rule.

May sharpen cutting blades after installation, using sharpening stone.

## Job Content Factors

## Workers

FP: GE10y IP: T6m  
HC: R RQ: V1

## Materials

SM: D2 T1 EQ: M1

## Functions

MA: D3 R3 M3 L3  
PA: U1 C1 H1 W1 E3 SA: S1 L1

## Context

EC: L4 C02,04,09 TC: A1 R1  
SS: 4 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 2531

**6206-Z WOODWORKING MACHINE OPERATORS nec**

This residual group covers occupations concerned with operating and attending pre-set woodworking machines not elsewhere classified in Unit Group 6206.

Starts machine and checks that it is working correctly. Operates control to feed wood to cutter or manually positions wood against cutter using jigs or templates as necessary. Removes shaped products from machine. Examples of machines used are trenching machines, cross cut saws, thicknessers, buzzers and sanders. Informs tradespersons of any problems that arise.

May clean and oil machine.

## 6207 APPRENTICE WOOD MACHINING AND TURNING OCCUPATIONS

This unit group covers apprentice occupations in wood machining and turning.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** learning the basic skills and knowledge required to be able to perform the duties of a qualified wood machinist, turner and patternmaker; performing duties as described under Master Title APPRENTICE.

### 6207-A APPRENTICE WOOD MACHINIST

Receives instruction and training in the trade of wood machining.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP:
HC: RI	RQ: D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: A2 D3 R3 M3 L3	
PA: P1 C1 H1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C09,02,04	TC: A1 R2
SS: 1	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 25

### 6207-B APPRENTICE WOOD TURNER

Receives instruction and training in the trade of wood turning.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP:
HC: RA	RQ: V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 M1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: P2 U1 C1 H1 W1 E2	SA: S2 L2
<i>Context</i>	
EC: L1 C02,04,09	TC: A1 R2 T1
SS: 1	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 2538

## 6209 OTHER WOOD PROCESSING AND MACHINING OCCUPATIONS

This unit group covers occupations concerned with processing wood by operating tending machines or by performing manual tasks not elsewhere classified in Minor Group 620.

**Entry Requirements** 10 months - 1 year's experience.

**Activities include** inspecting and grading timber; operating kilns and ovens to dry and treat timber and wood products; operating moulding machines to dress dry timber; operating bonding and laminating machines and other ancillary equipment, such as debarking, chipping, stress grading, drop sorting and glue mixing machines.

### 6209-A PRESS OPERATOR (WOOD PROCESSING)

Sets up and operates pre and/or hot press that bonds two or more laminates of materials, such as paperboard, paper or wood to form a solid lamination of specified dimensions.

Loads press assisted by helper. Operates controls to bring plates of press together and subject veneer sheets to pressure and hot press temperature, bonding them to form plywood. After specified period of time, operates controls to release plywood from press. Unloads press aided by assistant. Cleans

glue from press plate and debris from working area. Records data, such as quality, quantity and dimensions of plywood, and pressure, temperature and duration of pressing.

May repair surface defects in pre-cut sheets or finished beams. May prepare glue mixtures. May collect test samples in specified quantity or frequency. May adjust radio frequency curing and feed speed for continuous laminating presses. May be designated according to type of press operated, e.g.

Hot Press Operator (Wood Processing)

Pie (or Cold) Press Operator (Wood Processing)

#### Job Content Factors

##### Workers

FP: GE NFR

HC: R

IP: T3-6m E1y

RQ: D1 V1

##### Materials

SM: D2 T1

EQ: N1 M1

##### Functions

MA: D3 R3 M3 L3

PA: U1 C2 H2 W1 E4

SA: S2 L2 B2 R4

##### Context

EC: L1 C09,02,01

SS: 3

TC: A1 I1 R2

SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 253

### 6209-B KILN DRYER OPERATOR (WOOD PROCESSING)

Operates kiln dryers by maintaining correct temperatures for the proper drying of veneers or supervises other workers loading and unloading kilns.

Adjusts dryer speeds, steam pressure and cooling air to control drying process, prevent shrinkage and discolouration, and to improve glue bonding. Observes and records steam pressure, dryer speed, temperature and number and volume of loads processed. Turns valves to regulate steam pressure and temperature, and presses switches to control cooling fans. Adjusts moisture controls to keep humidity within specified limits. If required, extinguishes dryer fires by opening water-deluge system valve. Observes and clears blockages along conveyors. Supervises and assists staff in feeding and removing veneer from dryer.

May grade veneer according to company specifications after drying is completed.

#### Job Content Factors

##### Workers

FP: GE10y

HC: R1E

IP: T3-6m E1y

RQ: D1 V1

##### Materials

SM: D2 P2 T1

EQ: N2 M1 W1

##### Functions

MA: D2 R3 M3 L3

PA: U1 H1 W1 E4

SA: S2 L2 B2 R4

##### Context

EC: L4 C01,08,09

SS: 3

TC: A1 I1 R2 T2

SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 253

### 6209-C KILN OPERATOR (WOOD PROCESSING)

Operates one or more kilns to season timber and other wood products to specified moisture content.

Controls kiln drying schedules by monitoring and adjusting kiln conditions, such as temperature and humidity in accordance with approved industry and company procedures. Tests moisture content of timber to verify satisfactory seasoning.

May also operate reconditioning chambers. May perform or supervise loading/unloading of kilns, and the operation of transverses. May perform minor maintenance on kiln instruments.

#### Job Content Factors

##### Workers

FP: GE10y

HC: R1E

IP: T6-12m E1-2y

RQ: V1

##### Materials

SM: D1 T1

EQ: M1

##### Functions

MA: D2 R3 M3 L2

PA: C1 H1 W1 E3

SA: S1 L1 B2 R4

##### Context

EC: L4 C01,02,08

SS: 4

TC: A1 R1

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 253

### 6209-D OVENS AND HUMIDIFIER OPERATOR Heat Treatment/Humidifier Operator

Operates heat treatment ovens, humidifier units and auxiliary equipment simultaneously to heat-treat standard and oil tempered hardboard sheets.

Supervises and handles the feeding of hardboard sheets into both ovens. With the aid of instrumentation, keeps the temperature under control to avoid dangerous situations occurring, e.g. avoiding board car fires due to an intrinsic exothermal reaction in hardboard during heat treatment. Operates humidifier and, with the aid of instrumentation, ensures that temperature and moisture conditions induce conditions in the humidification oven to ensure maximum intake of moisture into the hardboard. Controls the processing times in both ovens.

#### Job Content Factors

##### Workers

FP: GE10y

HC: R1

IP: T10-40w E1-2y

RQ: V1

##### Materials

SM: D2 T1

EQ: M1

##### Functions

MA: A2 D2 R3 M3 L2

PA: C1 W1 E2

SA: S1 L1 B2 R4

##### Context

EC: L1 C01,02,08

SS: 5

TC: A1 R1

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 253

### 6209-E GLUE MIXER

Mixes glue according to formulae required.

Selects and weighs designated ingredients according to type of plywood to be manufactured. Places ingredients into hopper and starts machine that blends ingredients. Stops machine after specified period of time. Moves hopper along tracks and pulls lever to drain mixtures, through channels, from hopper to reservoir of glue spreading machines. Maintains records of amounts and type of glue supplied.

#### Job Content Factors

##### Workers

FP: GE NFR

HC: RC

IP: T3-12m

RQ: V1

##### Materials

SM: D2 T1

EQ: S2 M1

##### Functions

MA: D3 R3 M3 L3

PA: C1 H1 W1 E3

SA: S1 L1

##### Context

EC: L1 C02,08

SS: 5

TC: A1 R1

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 253

### 6209-F MACHINE STRESS GRADER OPERATOR

Operates, calibrates and adjusts equipment which grades timber into strength grades by applying bending or proof loads.

Follows approved procedures in testing equipment and maintaining calibration sticks or other testing equipment. Collects test samples at required frequencies and quantities. Controls the movement of timber through equipment.

May feed timber into the equipment either manually or mechanically. May control mechanisms sorting timber into grades on the out-feed. May refill, adjust and carry out minor maintenance on dye spraying equipment.

#### Job Content Factors

<i>Workers</i>	
FP: GE10- 9y	IP: T3-6m
HC: R1	RQ: V1
<i>Materials</i>	
SM: D2 T1	EQ: P2 M1
<i>Functions</i>	
MA: A2 D3 R3 M3 L2	
PA: C1 H1 B1 E3	SA: S1 L1
<i>Context</i>	
EC: L1 C09	TC: A1 R2
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 253

### 6209-G DEBARKER OPERATOR

Operates machine to remove bark, knots and dirt or to shape logs.

Controls operation of debarking equipment to remove bark from logs, or shape logs to a round or smooth taper shape by the action of scraping knives, rotating cutters, abrasion and impact, or water pressure.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: T1-3m
HC: R	RQ: V1
<i>Materials</i>	
SM: T1	EQ: M1
<i>Functions</i>	
MA: D3 R3 L3	
PA: C1 H1 W1 E4	SA: S1 L1
<i>Context</i>	
EC: L4 C02,04,09	TC: A1 R1
SS: 5	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 253

### 6209-H DROP-SORTER OPERATOR

Operates equipment that sorts sawn products for further processing.

Operates sorting equipment that separates and redirects boards, unedged boards, wings and residues to two or more conveyors for resawing, stacking, grading, chipping or other processing.

May be required to rapidly exercise judgment regarding resawing potential and grade of pieces to be sorted.

#### Job Content Factors

<i>Workers</i>	
FP: GE10- 9y	IP: T1-3m E6m
HC: IR	RQ: V1
<i>Materials</i>	
SM: T1	EQ: M1
<i>Functions</i>	
MA: A2 D2 R3 L3	
PA: U1 W1 B1 E3	SA: S1 L1
<i>Context</i>	
EC: L1 C02,04,09	TC: A1 R1
SS: 4	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 2531

### 6209-I CHIPPER OPERATOR Chipping Machine Tender; Flake Cutter Tender

Controls one or more machines that reduce logs, blocks, or sawmill residue into chips or flakes.

Removes foreign matter, such as nails or stones from logs, blocks or sawmill residue. Observes conveyors, screens and hoppers to ensure correct feedings, and clears blockages.

May position feed material on conveyor. May regulate speed of conveyors or cutters to control size of flakes. May replace conveyor belts and install chipping or flaking knives. May operate special machine to reduce sawmill residue to boiler fuel and be designated accordingly, e.g.

Hogger Operator

#### Job Content Factors

<i>Workers</i>	
FP: GE10- 9y	IP: T1-3m
HC: R	RQ: V1
<i>Materials</i>	
SM: T1	EQ: M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 W1 E3	SA: S1 L1
<i>Context</i>	
EC: L4 C02,04,09	TC: A1 R1
SS: 4	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 253

### 6209-J IN-FEED OPERATOR Centre Feeder; Glue Spreader Operator

Feeds machine that spreads glue on core sheets to form plywood panels.

Selects sound pieces of pre-cut veneer core sheets and feeds sheets through revolving glue-spreader rollers. Views overhead mirror to observe process of core laying on lay-up table and to estimate width of final piece required if pre-formed complete core sheets are not being used.

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1m
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: T1	EQ: M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 W1 E2	SA: A1
<i>Context</i>	
EC: L1 C09	TC: A1 R1
SS: 4	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC:

### 6209-K LEVERMAN/WOMAN

Assists sawyer to cut flitches into timber of a specified size by manipulating roller control lever on rip saw bench.

Switches on machinery. Assists sawyer to position timber for sawing. Operates rollers which feed the timber through saw blades. Operates gauge which determines timber sizes. Assists sawyer to cut timber. Assists sawyer to change saw blades when required. Makes safety checks on machines.

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T4w
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: T1	EQ: M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 W1 E3	SA: S1
<i>Context</i>	
EC: L4 C02,04,09	TC: A1 R1
SS: 4	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC:

### 6209-L VENEER GUILLOTINE OPERATOR Veneer Trimmer Operator

Operates guillotine to square edges of veneer strips preparatory to splicing.

Aligns edges of stack of veneer strips manually or by pressing button to activate mechanical shaker arms. Pushes button to clamp stack and to activate guillotine to smooth and square edges of veneer sheets. Turns stack of veneer strips and positions stack according to measurement or pre-set stops to ensure strips are of uniform and required width. Activates guillotine. Stacks strips in readiness for transfer to splicing machine operators.

#### Job Content Factors

##### Workers

FP: GE NFR IP: T2w E1m  
HC: R RQ: D1 V1

##### Materials

SM: T1 EQ: M1

##### Functions

MA: D3 R4 L3  
PA: U1 C2 H1 W1 E3 SA: A1

##### Context

EC: L1 C04,09 TC: A1 R1  
SS: 4 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC:

### 6209-M LOG PREPARER

Cuts logs into appropriate lengths (billets) and prepares logs or flitches in readiness for peeling or slicing.

Positions logs on saw carriage. Measures log to determine optimum number of usable lengths to be cut. Presses button or moves lever to start chain saw and lower blade to square log ends. Moves carriage and cuts log into billets of predetermined lengths. Operates overhead travelling hoist, using hand-held control box in order to position billet in holding rack. Removes bark if required. Removes embedded objects, such as stones or nails from billets using axe or saw. Clips brushes and scrapes billets or flitches in preparation for peeling or slicing.

May operate fork-lift to move and position logs or billets. May tend steam-heated water vats to soften logs for peeling into veneer.

#### Job Content Factors

##### Workers

FP: GE NFR IP: T2w  
HC: R RQ: D1 V1

##### Materials

SM: T1 EQ: S1 N1 M1 V1

##### Functions

MA: D3 R4 L3  
PA: U1 C2 W1 E3 SA: A1

##### Context

EC: L4 C04,09 TC: A1 R1  
SS: 4 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC:

### 6209-N TIMBER TREATMENT PLANT OPERATOR

Operates and controls one or more cylindrical retorts to

impregnate wood products and timbers with preserving or fire-retardant chemicals such as copper chrome arsenate (CCA), creosote and light organic solvent (LOS) preservatives.

Controls treatment cycle by monitoring and adjusting conditions such as compressed air pressure, treatment fluid pressure, vacuum and temperature within the treatment cylinder. Operates pumps and valves required to adjust these conditions and to transfer treatment fluid to and from treatment cylinder.

May operate small locomotive or winch to move train loads of wood into and out of retort. May operate mixing machine to blend treating ingredients according to predetermined formulae. May measure moisture content of wood with portable testing device prior to treating.

#### Job Content Factors

##### Workers

FP: GE10y PSP6m(B) IP: T6m E1y  
HC: R1 RQ: S2 V1

##### Materials

SM: D1 T1 EQ: S1 M1

##### Functions

MA: D3 R3 M3 L2  
PA: U1 C1 W1 E3 SA: S1

##### Context

EC: L4 C02,09,08 TC: A1 R1  
SS: 4 SC: 6 (vy)

LMS: NA (5 %SE)

ASIC: 2531

### 6209-O TIMBER IMMUNISING PLANT OPERATOR

Tends open tank to immunise wood products and timbers with preservatives, such as borax or formulated dip diffusion salts.

Signals crane or fork lift operator to lift load of material over open tank and guides load into tank by hand or with rod, working from elevated platform. Observes gauges and turns valves to regulate heat and flow of preservative solution in tank. Supervises removal of timber from tank. Records results achieved on appropriate charge sheets.

#### Job Content Factors

##### Workers

FP: GE10y PSP6m(B) IP: T6m E6m  
HC: R RQ: V1

##### Materials

SM: D2 T1 EQ: M1

##### Functions

MA: D3 R3 M3 L2  
PA: U1 C1 W1 E3 SA: S1

##### Context

EC: L4 C02,09,08 TC: A1 R1  
SS: 2 SC: 5 (vy)

LMS: NA (5 %SE)

ASIC: 2531

### 6209-Z WOOD PROCESSING AND MACHINING OCCUPATIONS nec

This residual group covers wood processing and machining occupations, not elsewhere classified in Unit Group 6209.

**MINOR GROUP 621**  
**WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING**  
**OCCUPATIONS**

Wood Products Fabricating, Assembling and Repairing Occupations are classified in the following unit groups.

- 6210 Foremen/women, Wood Products Fabricating, Assembling and Repairing Occupations
- 6211 Cabinet-Makers, Joiners and Related Occupations
- 6212 Wood Products Fabricating, Assembling and Repairing Trade Occupations (Other)
- 6213 Assemblers, Wood Products
- 6214 Apprentice Wood Products Fabricating, Assembling and Repairing Occupations
- 6219 Other Wood Products Fabricating, Assembling and Repairing Occupations

*Related Occupations*

Minor Group 681 : Construction Trade Occupations

**6210 FOREMEN/WOMEN, WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS**

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in fabricating, assembling and repairing wood products.

**Entry Requirements** Year 10 and/or a trade qualification, and 5-10 years' experience.

**Activities include** supervising and co-ordinating the activities of workers engaged in joinery, furniture manufacturing, cooperage, wood carving and manufacturing; assembling and repairing other wooden products; and performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**6210-A FOREMAN/WOMAN, JOINERY PRODUCTS MANUFACTURE**

Supervises and co-ordinates the activities of workers engaged in the assembly and repair of joinery products, such as window and door frames and building fixtures.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise activities of workers in standard or detailed joinery and be designated accordingly, e.g.  
Foreman/woman, Detailed Joinery  
Foreman/woman, Standard Joinery

*Job Content Factors*

*Workers*

FP: GE10y PSP4y(T) IP: T6m E5y  
HC: REI RQ: V1

*Materials*

SM: D2 P2 T1 EQ: S1

*Functions*

MA: I2 A2 P1 D2 R3 M2 L2  
PA: P2 S1 W2 E2 SA: S2 L1 B1 R2-4

*Context*

EC: L1 C09,12 TC: A1 T1  
SS: 7 SC: 8 (vy)

LMS: NA (0 %SE) ASIC: 253,41,42

**6210-B FOREMAN/WOMAN, FURNITURE MANUFACTURE**

Supervises and co-ordinates the activities of workers engaged in the assembly and repair of furniture products.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise activities of workers in a particular area and be designated accordingly, e.g.

Foreman/woman, Cabinet-Making

Foreman/woman, Chairmaking

#### Job Content Factors

##### Workers

FP: GE10y PSP4y(T)

IP: T6m E1-2y

or FP: GE10y

IP: T6-12m E6-10y

HC: RIE

RQ: V1

##### Materials

SM: D2 P2 T1

EQ: S1

##### Functions

MA: A2 P1 D2 R3 M2 L2

PA: P2 S1 W2 E2

SA: S1 L1 B1 R2-4

#### Context

EC: L1 C09,02

TC: A1 T1

SS: 5

SC: 7 (vy)

LMS: NA (0 %SE)

ASIC: 2541

#### 6210-Z

#### FOREMEN/WOMEN, WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS nec

This residual group covers all other foremen/women in wood products fabricating, assembling and repairing occupations, not elsewhere classified in Unit Group 6210, e.g.

Foreman/woman, Cane Furniture Making

Foreman/woman, Cooperage

Foreman/woman, Picture Frame Making

Foreman/woman, Wood Carving

### 6211 CABINET-MAKERS, JOINERS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with cabinet-making, joinery, renovating and repairing structures and fixtures of wood, plywood and related materials, and with manufacturing, assembling and repairing joinery items.

**Entry Requirements** a trade qualification.

**Activities include** examining plans and specifications; directing activities of apprentices, assistants and other workers; setting out work; sawing, grooving, planing or sanding materials by hand or power tools; cutting material to size and shape; cutting, shaping and fitting wooden parts; forming structures and fittings ready for installation; and renovating, repairing and maintaining existing structures; making and/or repairing furniture including wooden chairs and chair frames and assembling repaired wooden parts into finished articles of furniture by marking out, cutting and shaping wooden parts and trimming, gluing and joining.

#### Related Occupations

Minor Group 6812

: Carpentry Occupations

#### 6211-A

#### JOINER, DETAILED Joiner, Architectural

Cuts, shapes and fits wooden parts in workshop to form structures and fittings, ready for installation, from architects' drawings.

Ascertains job requirements from working drawings and written instructions. Sets up jigs. Selects appropriate hard or soft woods, cuts to size, and shapes and cuts joints using jigs, hand saws, chisels, planes, wood cutting machines or powered hand tools, or uses wood prepared by wood cutting machinists. Assembles prepared wood and fixes by methods, such as nailing, screwing, dowelling and gluing to form structures and fittings such as staircases, door and window frames, shop fronts, counter units, doors and panelling. Checks accuracy of work with square rule and spirit level. Supplies and sharpens own tools.

May repair existing fittings at site or in workshop. May work with plastic laminates, perspex or metals. May fit aluminium window frames. May glaze windows of units for sectional timber buildings.

#### Job Content Factors

##### Workers

FP: GE10y PSP4y(T)

IP:

HC: RIA

RQ: V1

##### Materials

SM: D2 P2 T1

EQ: S1 N1 M2

##### Functions

MA: I2 A2 P2 D2 R3 M2 L2

PA: P1 H1 W1 E3

SA: S1 L1 B2 R4

##### Context

EC: L1 C02,09

TC: A1

SS: 6

SC: 10 (vy)

LMS: NA (0 %SE)

ASIC: 2535,41,42

#### 6211-B

#### JOINER, STANDARD

Performs similar duties to 6211-A JOINER, DETAILED, working from templates rather than drawings.

#### Job Content Factors

##### Workers

FP: GE10y PSP4y(T)

IP:

HC: R1

RQ: V1

##### Materials

SM: D2 T1

EQ: S1

##### Functions

MA: D2 R3 M2 L2

PA: P1 H1 W1 E3

SA: S1 L1

##### Context

EC: L1 C02,09

TC: A1 R2

SS: 6

SC: 7 (vy)

LMS: NA (0 %SE)

ASIC: 2535

### 6211-C SETTER OUT Lay-out Marker

Lays out outlines of frames and other joinery parts on wood stock, working from engineering drawings, job orders, models and specifications to guide other workers.

Prepares full-scale drawings using squares, rule, protractors etc. Selects strips of wood or plywood sheets according to type of template required. Marks out design and cutting lines on the wood to required dimensions using hand tools and woodworking machines. Assembles parts to form template and fixes with glue, nails or screws. Checks dimensions of template with original drawings. Marks identifying information and working instructions on template for guidance of production workers. Repairs or rebuilds worn or damaged templates.

May strengthen template as necessary.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RIE	RQ: V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S1
<i>Functions</i>	
MA: I2 A2 P2 D2 R3 M2 L2	
PA: P1 H1 W1 E3	SA: S1 L1 B2 R4
<i>Context</i>	
EC: L1 C02,09	TC: A1
SS: 7	SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: 2535

### 6211-D CABINET-MAKER Furniture Maker

Makes or repairs wooden furniture other than chairs and/or fits and assembles prepared wooden parts to make furniture.

Ascertains job requirements from drawings and other specifications. Selects wood and/or prepared parts in accordance with specifications. Marks out, cuts and shapes wood using saws, chisels, planes, powered hand-tools and woodworking machines. Trims, glues and joints. Fits parts together to form sections of cabinets, tables and drawers. Places parts or sections in hand or in pneumatic clamps and applies pressure. Reinforces joints with nails, dowels or screws. Removes sections from clamps, and assembles and fixes to form completed article. Fits locks, catches, hinges, drawers and shelves as appropriate. Repairs damaged furniture and cabinets.

May make jigs or templates. May make special types of cabinets and be designated accordingly, e.g.

Coffin Maker Custom Furniture Maker  
Refrigerator Cabinet-Maker  
Television Cabinet-Maker

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RAE	RQ: V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N2 M2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: P2 U1 H1 W1 E3	SA: S2 L1 B2 R4
<i>Context</i>	
EC: L1 C02,09	TC: A1
SS: 3	SC: 8 (vy)
LMS: 6500-7500(30%SE)	ASIC: 2541

### 6211-E CHAIRMAKER

Makes or repairs wooden chairs or chair frames and/or fits and assembles prepared wooden parts to make chairs or chair frames.

Performs duties of 6211-D CABINET-MAKER, specialising in chairs and couches.

May specialise in making prototypes for production runs. May specialise in making couches or reproductions of antique chairs and be designated accordingly, e.g.

Antique Chair Reproducer Couchmaker

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RAE	RQ: V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N2 M2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: P2 U1 H1 W1 E3	SA: S1 L1 B2 R4
<i>Context</i>	
EC: L1 C02,09	TC: A1
SS: 3	SC: 8 (vy)
LMS: NA (10%SE)	ASIC: 2541

## 6212 WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING TRADE OCCUPATIONS (OTHER)

This unit group covers occupations concerned with carving ornamental designs on wood, making picture frames, making and repairing wooden barrels, making cane furniture.

**Entry Requirements** a Year 10 and/or a trade qualification in the relevant specialisation.

**Activities include** carving ornamental designs for furniture, panelling and other decorative purposes using hand tools and woodworking machines; cutting out and assembling mouldings to make picture frames; making, repairing or assembling barrels, casks and vats using saws, planes, chisels and/or prepared wooden parts; selecting, straightening and sizing cane rods; bending and shaping rods; making frames and weaving cane around them to form furniture.

**6212-A WOOD CARVER**

Carves ornamental designs in wood for furniture, panelling and other decorative purposes using hand tools and woodworking machines.

Ascertains job requirements from drawing, model or other specifications. Prepares detailed drawing of design, where necessary, and traces it onto wood of suitable size. Marks out length of wood using dividers or pointers. Clamps wood in jig. Carves required pattern by hand using tools, such as gouges, paring knife, chisels and mallet. Smooths edges with chisel or sandpaper.

May use wood previously cut by wood machinist or cabinet-maker. May undertake restoration of woodwork in churches and historic buildings.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE10y HC: RAE	IP: IP: T4-6y RQ: V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P1 S1 M2
<b>Functions</b>	
MA: A2 P1 D2 R3 M3 L2 PA: P1 H1 W1 E3	SA: S1 L2 I2 B2 R4
<b>Context</b>	
EC: L1 C02,09 SS: 3	TC: A1 SC: 8 (vy)
LMS: NA (30%SE)	ASIC: 2538

**6212-B PICTURE FRAMER  
Picture Frame Maker**

Cuts out and assembles mouldings to make picture frames using hand and power tools.

Determines location, size and angle of nail holes to be drilled. Clamps piece in vice and brushes glue on mitred ends. Fits frame together in vice and drives nail through pre-drilled holes using hammer. Sets nails, using hammer and nail set.

May butt mitred pieces of moulding together using staple gun. May cut glass to specified size. May fit print to ready-made frame.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE10y HC: RAE	IP: IP: T2-3y RQ: V1
<b>Materials</b>	
SM: D1 T1	EQ: S1 N2 M1
<b>Functions</b>	
MA: D3 R3 M3 L3 PA: U1 H1 W1 E2	SA: S1 L2 I2 B2 R4
<b>Context</b>	
EC: L1 C02,09 SS: 2	TC: A1 R2 SC: 4 (vy)
LMS: NA (30%SE)	ASIC: 2538

**6212-C COOPER**

Makes, repairs or assembles prepared parts to make wooden barrels, casks and vats.

Ascertains job requirements from specifications. Selects wood and cuts, shapes, smooths and tapers boards to form staves using saws, planes and chisels or uses prepared wooden parts. Assembles staves into rough shape inside temporary hoop using hammer and hoop driver. Applies hot water or steam to make wood pliable. Cuts, bends and rivets metal or wooden strip to form hoop using hammer and chisel, and fits hoop in permanent position round barrel or cask drawing staves tightly together. Removes temporary hoop. Fits additional hoops as necessary. Draws ends of staves together using trussing machine and secures in position with temporary

hoops. Cuts groove on inside rim of stave ends using sharp metal tool (croze). Makes up base and lid (heads) for barrel or cask, or selects prepared heads and fits head into grooves. Replaces temporary hoops with permanent hoops as described above. Smooths interior and exterior of barrel using hand tools such as planes, spokeshaves and adzes. If undertaking repair work, removes damaged staves and replaces as described above.

May perform most of duties described above with machines. May check barrel for leaks and insert suitable sealant between staves. May drill and countersink bung holes.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T) HC: RIE	IP: RQ: V1
<b>Materials</b>	
SM: D1 T1	EQ: P1 S1 M1
<b>Functions</b>	
MA: A2 P1 D2 R3 M2 L2 PA: P1 U1 C1 H2 W1 B1 E3	SA: S1 L2 B2 R4
<b>Context</b>	
EC: L4 C02,09,12 SS: 3	TC: A1 SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: 2536

**6212-D CANE FURNITURE MAKER  
Cane Frame Maker**

Makes furniture from cane, performing any combination of the following duties.

Selects cane rods. Straightens rods by hand, docks to size, and sands and splices ends, where appropriate, for bending or assembly. Secures framework rods in clamp or shaping device. Bends rods to required shape by applying heat or steam as necessary. Joins rods together to form framework using adhesive and/or nails or screws. Winds cane around framework joints to strengthen and/or conceal joints. Weaves lengths of cane around framework by hand to form articles of furniture.

May soak lengths of cane to facilitate bending. May apply decorative finish to furniture. May paint finished articles by brush or spray. May repair worn or damaged cane furniture.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE10y HC: RAE	IP: IP: T3-4y RQ: V1
<b>Materials</b>	
SM: D1 T1	EQ: P1 S1 M1
<b>Functions</b>	
MA: D2 R3 M3 L2 PA: P2 U1 H1 W1 E3	SA: S1 I2
<b>Context</b>	
EC: L1 C02,09 SS: 3	TC: A1 SC: 5 (vy)
LMS: NA (30%SE)	ASIC: 2541

**6212-E SHIPWRIGHT, WOOD**

Constructs and repairs ships, following diagrams and blueprints, using hand and power woodworking tools.

Sights, plots and marks reference points and lines on drydock or way to maintain alignment of vessel during construction or repair, using transit, plumb bob, tapes and levels. Builds supports, such as bilge and keel blocks, cradles, and shoring for ships in drydock, marine railway, shipping or building dock. Positions and secures blocking and other structures on dock or cradle platform. Aligns vessel over blocks. Establishes reference points and lines on ship's hull for locating machinery and other equipment in accordance with ships' alignment and shape. Fabricates and installs furring pieces, aprons, uprights and other wood framing in ship. Shapes, finishes and installs wooden spars, masts, and cargo and boat

booms. Trims wooden frames and timbers, using broadaxe and adze. Spikes or bolts metal fittings, plates and bulkheads to wooden parts of ship, using brace and bits, augers, mauls and wrenches.

**Job Content Factors**

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: R1E	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S1
<i>Functions</i>	
MA: A2 P2 D2 R3 M2 L2	
PA: P1 U1 C1 H1 W1 B1 E3	SA: S1 B2 R4
<i>Context</i>	
EC: L4 C09,12,07	TC: A1
SS: 7	SC: 9 (vy)
LMS: 1000-1200(0 %SE)	ASIC: 324I

**6212-F FURNITURE FINISHER**  
**Wood Finisher; Furniture Polisher**

Finishes or refinishes new or repaired furniture to specified colour or finish, utilising knowledge of wood properties, finishes and furniture styling, performing any combination of the following duties.

Disassembles articles, masks areas adjacent to area being refinished and removes accessories such as knobs and hinges to prepare article for refinishing. Removes old finishes, if required, by stripping with steel wool or glasspaper or by applying appropriate solvent or paint stripper to soften finish, and removing softened finish by scraping with knife, scraper or steelwool. Removes excess solvent by rubbing surface with

cloth containing water, appropriate thinner or other material. Removes indentations using scraper, glasspaper, hot iron or sanding block. Stops-up holes and cracks using filler such as beeswax, shellac stick, plastic wood, lacquer putty or similar material applied with spatula or knife. Smooths to flat surface using glasspaper by hand, or by using a sanding block or sanding machine. Mixes stain by stirring in appropriate amount of base colours to obtain specified colour or shade and applies by brush or spray. Brushes or sprays successive coats of varnish, shellac, lacquer or paint onto workpiece. Grains wood or paints wood trim using graining roller, comb, sponge or brush. Polishes and waxes finished surfaces.

May brush bleaching acid over surface to restore wood to natural colour, and removes excess acid by applying suitable neutraliser. May spread graining ink over metal portions of surfaces to simulate wood-grain finish. May specialise in hand polishing and restoring antique furniture and be designated accordingly, e.g.

French Polisher

**Job Content Factors**

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RAE	RQ: V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S1 M2
<i>Functions</i>	
MA: A2 P1 D2 R3 M3 L2	
PA: P1 H1 W1 E3	SA: S1 L2 I2 B2 R4
<i>Context</i>	
EC: L1 C02,09	TC: A1
SS: 5	SC: 5 (vy)
LMS: NA (30%SE)	ASIC: 25

**6213 ASSEMBLERS, WOOD PRODUCTS**

This unit group covers occupations concerned with assembling wood products into finished and part-finished articles.

**Entry Requirements** Year 9-10 and in some cases up to 6 months' experience.

**Activities include** fixing together prepared component parts for production of joinery products and partly and/or completely assembling and fastening together machine dressed and marked wooden parts into furniture or frames, using hand and power tools.

**6213-A JOINER ASSEMBLER, A GRADE**

Fixes together previously prepared parts in the batch or mass production of joinery products.

Assembles and part-finishes machined, dressed and marked wooden parts or other material by cramping, nailing, screwing, gluing and other fastening means, using hand and power tools.

**Job Content Factors**

<i>Workers</i>	
FP: GE10- 9y	IP: T1-3m E3-6m
HC: R1	RQ: V1
<i>Materials</i>	
SM: D2 T1	EQ: S1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 U1 H1 W1 E3	SA: S2 L2

*Context*

EC: L1 C02,09	TC: A1 R2
SS: 4	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 2535

**6213-B JOINER ASSEMBLER, B GRADE**

Fixes together component parts that do not require fitting or adjustment.

Assembles component parts in predetermined positions using automatic and semi-automatic hand tools.

**Job Content Factors**

<i>Workers</i>	
FP: GE10- 9y	IP: T1-4w
HC: R	RQ: V1
<i>Materials</i>	
SM: D2 T1	EQ: S1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H1 W1 E3	SA: S2 L2

## Context

EC: L1 C02,09  
SS: 3

TC: A1 R1  
SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 2535

**6213-C FURNITURE ASSEMBLER, FIRST CLASS**

Completely assembles and fastens together machine dressed and marked wooden parts into furniture or frames using hand and power tools.

Fits prefabricated parts together. Inserts screws or dowels in pre-drilled holes and fastens parts together using screwdriver, glue and/or clamps. Installs hardware such as hinges, catches and knobs.

May trim wooden parts to ensure tight fit, using sandpaper, chisel or file. May be concerned with the assembly of a particular product and be designated accordingly, e.g.

Cabinet Assembler                      Chair Assembler

## Job Content Factors

## Workers

FP: GE10- 9y                      IP: T1-3m E3-6m  
HC: R1                              RQ: V1

## Materials

SM: D2 T1                      EQ: S1 M2

## Functions

MA: D3 R4 L3                      SA: S1 L2  
PA: P2 U1 H1 W1 E3

## Context

EC: L1 C02,09                      TC: A1 R2  
SS: 2                              SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 2535

**6213-D FURNITURE ASSEMBLER, SECOND CLASS**  
**Sub-assembler (Furniture)**

Assembles component parts used in the manufacture of furniture using hand and power tools.

Performs duties similar to those of 6213-C FURNITURE ASSEMBLER, FIRST CLASS specialising in fabricating wooden component parts of furniture.

## Job Content Factors

## Workers

FP: GE10- 9y                      IP: T1-4w  
HC: R1                              RQ: V1

## Materials

SM: D2 T1                      EQ: S1

## Functions

MA: D3 R4 L3                      SA: S1 L2  
PA: U1 H1 W1 E3

## Context

EC: L1 C02,09                      TC: A1 R1  
SS: 2                              SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 2535

**6213-Z ASSEMBLERS, WOOD PRODUCTS nec**

This residual group covers occupations concerned with assembling wood products not elsewhere classified in Unit Group 6213.

**6214 APPRENTICE WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS**

This unit group covers apprentice occupations in joinery, wood shipwrighting, cabinet-making, wood carving, picture framing, coopering, cane furniture making and furniture finishing.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

**6214-A APPRENTICE JOINER**

Receives instruction and training in the trade of joinery.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

## Job Content Factors

## Workers

FP: GE10y                      IP:  
HC: R1A                      RQ: V1

## Materials

SM: D2 T1                      EQ: S1 N1 M2

## Functions

MA: D3 R3 M2 L2                      SA: S2 L2  
PA: P2 C2 W1 B2 E3

## Context

EC: L4 C09,12                      TC: A1 R2  
SS: 2                              SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 2535

**6214-B APPRENTICE SHIPWRIGHT, WOOD**

Receives instruction and training in the trade of wood shipwrighting.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

## Job Content Factors

## Workers

FP: GE10y                      IP:  
HC: R1                              RQ: D1 V1

## Materials

SM: D2 T1                      EQ: P1 S1

*Functions*

MA: D3 R3 M2 L2

PA: P2 U1 C1 H1 W1 B2 E3

SA: S1 L2

*Context*

EC: L4 C09,12

SS: 2

TC: A1 R2

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 3241

**6214-C APPRENTICE CABINET-MAKER**

Receives instruction and training in the trade of cabinet-making.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors**Workers*

FP: GE10y

HC: R1A

IP:

RQ: D1 V1

*Materials*

SM: D2 T1

EQ: P1 S1 M2

*Functions*

MA: D3 R3 M2 L2

PA: P2 U1 H1 W1 E3

SA: S2 L1

*Context*

EC: L1 C09,02

SS: 2

TC: A1 R2

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 2541

**6214-D APPRENTICE WOOD CARVER**

Receives instruction and training in the trade of wood carving.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors**Workers*

FP: GE10y

HC: RAE

IP:

RQ: D2 V1

*Materials*

SM: D2 T1

EQ: P1 S1 M2

*Functions*

MA: D3 R3 M2 L2

PA: P1 U2 H2 W1 E3

SA: S1 L2 I2

*Context*

EC: L1 C09,02

SS: 2

TC: A1

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 2538

**6214-E APPRENTICE PICTURE FRAMER**

Receives instruction and training in the trade of picture framing.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors**Workers*

FP: GE10y

HC: RAE

IP:

RQ: D2 V1

*Materials*

SM: D2 T1

EQ: S1 N2 M1

*Functions*

MA: D3 R3 M3 L3

PA: U1 H1 W1 E2

SA: S1 L2 I2

*Context*

EC: L1 C09,02

SS: 2

TC: A1 R2

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 2538

**6214-F APPRENTICE COOPER**

Receives instruction and training in the trade of coopering.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors**Workers*

FP: GE10y

HC: R1

IP:

RQ: V1

*Materials*

SM: D2 T1

EQ: P1 S1 M1

*Functions*

MA: D3 R3 M2 L3

PA: P1 U1 C1 H2 W1 B1 E3

SA: S1 L2

*Context*

EC: L4 C02,09,12

SS: 2

TC: A1 R2

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 2536

**6214-G APPRENTICE CANE FURNITURE MAKER**

Receives instruction and training in the trade of cane furniture making.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors**Workers*

FP: GE10y

HC: RAE

IP:

RQ: V1

*Materials*

SM: D2 T1

EQ: P1 S1 M1

*Functions*

MA: D3 R3 M3 L2

PA: P2 U1 H1 W1 E3

SA: S1 I2

*Context*

EC: L1 C02,09

SS: 2

TC: A1 R2

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 2541

**6214-H APPRENTICE FURNITURE FINISHER**

Receives instruction and training in the trade of furniture furnishing.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors**Workers*

FP: GE10y

HC: RAE

IP:

RQ: D2 V1

*Materials*

SM: D2 T1

EQ: P1 S1 M2

*Functions*

MA: D3 R3 M2 L2

PA: P1 U2 H2 W1 E3

SA: S1 L2 I2

*Context*

EC: L1 C09,02

SS: 2

TC: A1

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 25

**6219 OTHER WOOD PRODUCTS FABRICATING, ASSEMBLING AND REPAIRING  
OCCUPATIONS**

This residual unit group covers occupations concerned with manufacturing, assembling and repairing other wood products, not elsewhere classified in Minor Group 621.

**6219-Z WOOD PRODUCTS FABRICATING  
ASSEMBLING AND REPAIRING  
OCCUPATIONS nec**

This residual group covers occupations concerned with manufacturing, assembling and repairing wood products, not elsewhere classified in Unit Group 6219.

## MINOR GROUP 622

### PULP, PAPERMAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS

Pulp, Papermaking and Paper Product Fabricating Occupations are classified in the following unit groups.

- 6220 Foremen/women, Pulp, Papermaking and Paper Product Fabricating Occupations
- 6221 Pulp Preparing Occupations
- 6222 Papermaking and Paper Product Fabricating Occupations

#### 6220 FOREMEN/WOMEN, PULP, PAPERMAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS

This unit group covers occupations concerned with supervising and co-ordinating activities of workers engaged in making pulp, and making and finishing paper, paperboard and paper products.

**Entry Requirements** Year 10-11 and/or a trade qualification with 2-5 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### 6220-A FOREMAN/WOMAN, PULP PREPARING OCCUPATIONS

Supervises and co-ordinates activities of workers engaged in producing pulp used for manufacturing paper.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

##### *Job Content Factors*

##### *Workers*

FP: GE10-11y PSP	IP: T6m E3-5y
or FP: GE10y PSP4y(T)	IP: T2m E2y
HC: RIE	RQ: U2 D2 V1 A2

##### *Materials*

SM: D2 P2 T1	EQ: P2 S2 M2
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##### *Functions*

MA: I2 A2 P1 D2 R2 M2 L2	SA: S2 L1 B1 R2-4
PA: P2 C2 S2 W2 E2	

##### *Context*

EC: L1 C09,08,02	TC: A1 I1 T2
SS: 4	SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 263

making and finishing paper, paperboard or sheet pulp from pulp stock.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

##### *Job Content Factors*

##### *Workers*

FP: GE10-11y PSP	IP: T1y E3-5y
or FP: GE10y PSP4y(T)	IP: T2m E2y
HC: RIE	RQ: U2 D2 V1 A2

##### *Materials*

SM: D2 P2 T1	EQ: P2 S2 M2 K2
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##### *Functions*

MA: I2 A2 P1 D2 R2 M2 L2	SA: S2 L2 B1 R2-4
PA: U1 C2 S2 W2 E2	

##### *Context*

EC: L1 C09,08	TC: A1 I2 T2
SS: 4	SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 263

#### 6220-Z FOREMEN/WOMEN, PULP, PAPERMAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS nec

This residual group covers foremen/women concerned with pulp, papermaking and paper product fabricating occupations not elsewhere classified in Unit Group 6220.

#### 6220-B FOREMAN/WOMAN, PAPERMAKING AND FINISHING OCCUPATIONS

Supervises and co-ordinates activities of workers engaged in

## 6221 PULP PREPARING OCCUPATIONS

This unit group covers occupations concerned with operating equipment that converts materials, such as wood, rags, scrap pulp and paper into pulp stock for use in making paper.

**Entry Requirements** in some cases Year 10-11 and/or up to 3 years' related work experience.

**Activities include** operating machines involved in grinding, digesting, screening, bleaching, beating and refining pulp material; operating machines to grind wood billets into fibres used in making paper pulp; operating continuous process digester and associated equipment to produce cooked pulp from wood chips; operating screening equipment to remove oversized slivers of wood; controlling absorption towers, mixing tanks, rotary drums, washers and associated equipment to bleach pulp; controlling beater machines and related equipment to process stock; operating machines that refine, mix, dry, shred and bale pulp; tending machine that reduces broken or dry pulp sheets to pulp slush; testing samples of pulp stock or sheet pulp during production, using standard equipment and procedures to control quality and uniformity of product.

### 6221-A GRINDER OPERATOR (PAPER PULP PREPARATION)

Operates machines to grind wood billets into fibres used in making paper pulp.

Adjusts panel controls to regulate conveyor system that feeds wood billets to hopper of grinder machines. Moves lever to activate hydraulic piston that presses wood billets against revolving grindstones. Turns valves to regulate spray of water to cool grindstones and to control flow of pulp from discharge end of machine. Observes temperature gauge and colour of pulp for evidence of burns caused by dull or broken grindstones, and notifies foreman/woman of defects. Cleans pulp buildup from around water spray pipes to prevent burning of pulp.

#### Job Content Factors

##### Workers

FP: GE NFR	IP: T1m
HC: R	RQ: D1 V2

##### Materials

SM: T1	EQ: N2 M1
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##### Functions

MA: D3 R4 L3	SA: S1
PA: U1 C2 W1 E3	

##### Context

EC: L1 C09,08,03	TC: A1 I2 R1
SS: 3	SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 263

### 6221-B CONTINUOUS DIGESTER OPERATOR (PAPER PULP PREPARATION)

Operates continuous process digester and associated equipment from control room to produce cooked pulp from wood chips.

Monitors master control panel to locate malfunctioning equipment and inconsistent material or product flow. Observes temperature, pressure and flow gauges and charts, illuminated flow diagrams, and coloured panel lights. Adjusts controls according to panel indicators and process requirements to start and stop pumps, conveyors, fans, motors and other equipment, and open and close valves to regulate flow of

materials. Listens for warning devices to detect trouble sources. Checks fault and makes adjustments or reports fault to foreman/woman.

May operate a particular type of equipment and be designated accordingly, e.g.

Continuous Digester Operator, Chemical Pulp (Paper)

Continuous Digester Operator, Semi-chemical Pulp (Paper)

#### Job Content Factors

##### Workers

FP: GE NFR	IP: T3m
HC: RI	RQ: D2 V2 A1

##### Materials

SM: D2 T1	EQ: S2 M1 K2
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##### Functions

MA: D2 R3 M3 L3	SA: S1
PA: U1 C2 S2 W2 E3	

##### Context

EC: L1 C08	TC: A1 I2 R2
SS: 3	SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 263

### 6221-C SCREENER OPERATOR (PAPER PULP PREPARATION)

Operates screening equipment from central control panel to remove oversized slivers of wood.

Turns dials and moves panel and hand controls to regulate flow of water and pulp to cleaning and screening equipment. Observes gauges, coloured panel lights, and level indicators to monitor system operation and to identify trouble sources and malfunction of equipment. Repairs fault or reports fault to foreman/woman.

#### Job Content Factors

##### Workers

FP: GE NFR	IP: T2m
HC: R	RQ: V2

##### Materials

SM: T1	EQ: S2 M1 K2
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##### Functions

MA: D3 R4	SA: S2 L2
PA: U1 S2 W1 E2	

*Context*EC: L1 C08  
SS: 3TC: A1 I2 R1  
SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 263

**6221-D BLEACHER OPERATOR (PAPER PULP PREPARATION)**

Controls absorption towers, mixing tanks, rotary drums, washers and associated equipment to bleach pulp.

Starts pump and adjusts panel controls to regulate flow rate and consistency of pulp stock to absorption towers and bleaching and soaking tanks, according to specified bleaching sequence. Opens and closes valves to allow metered flow of chemicals, such as liquid and gaseous chlorine, caustic soda and hypochlorite into pulp according to bleaching specifications. Starts agitators to mix pulp and chemicals. Starts pumps and turns valves to control flow of pulp to rotary drum washers and adjusts spray of wash water into pulp to wash out soluble impurities and excess bleach after each bleaching stage. Observes gauges, dials and charts, examines test reports and adjusts controls to ensure specified bleaching of pulp. Starts pumps to transfer bleached pulp to storage tanks. Maintains production records.

*Job Content Factors**Workers*FP: GE NFR  
HC: RCIIP: T2m  
RQ: D1 V2*Materials*

SM: D2 T1

EQ: S1 M1 K2

*Functions*MA: D2 R3 M3 L2  
PA: U1 C2 W1 E3

SA: S1 L2

*Context*EC: L1 C08,09,02  
SS: 3TC: A1 I2  
SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 263

**6221-E BEATER OPERATOR (PAPER PULP PREPARATION)**

Controls beater machines and related equipment to process stock for making paper.

Starts pumps and adjusts valves to admit specified amounts of slush pulp, fillers, size, alum and liquid chemicals. Starts machines and adjusts beater bars to obtain specified degree of pulp fineness. Checks stock for specified consistency and size of fibres. Dips sample from vat for laboratory testing. Starts pumps to transfer stock to storage tanks. Maintains production records.

*Job Content Factors**Workers*FP: GE NFR  
HC: RCIP: T1m  
RQ: D1 V2*Materials*

SM: D2 T1

EQ: N2 M1

*Functions*MA: D3 R4 L3  
PA: U1 H2 W1 E3

SA: S2 L2

*Context*EC: L1 C08,09  
SS: 3TC: A1 I2  
SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 263

**6221-F PULP REFINER OPERATOR (PAPERMAKING)**

Operates machines to refine pulp and shorten fibres in continuous process to prepare pulp for papermaking.

Turns handwheels to adjust distance between bedplate and rotor disc to obtain specified fineness of fibres. Starts machines and pumps to regulate flow of pulp from beater

chests through refining machines to paper machine chests. Examines pulp, reviews laboratory test reports, and adjusts machines to ensure that pulp meets specifications.

*Job Content Factors**Workers*FP: GE NFR  
HC: RICIP: T2m E1-2y  
RQ: D1 V1*Materials*

SM: D2 T1

EQ: S2 M1

*Functions*MA: A2 D2 R3 M3 L2  
PA: P2 U1 C2 W1 E3

SA: S2 L1

*Context*EC: L1 C08,09  
SS: 3TC: A1 I2  
SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 263

**6221-G PULP DRYER OPERATOR (PAPERMAKING)**

Operates machines that mix, dry, shred and bale pulp for paper manufacturing.

Turns valves or control knobs to regulate flow of pulp slush from supply line. Adjusts machine to produce pulp bales of specified moisture content by turning control knobs and opening and closing valves. Cleans pulp sludge from machine components using brush, scraper and air hose. Lubricates machine. Maintains production records.

*Job Content Factors**Workers*FP: GE NFR  
HC: RIP: T1m  
RQ: D2*Materials*

SM: T1

EQ: S2 M1

*Functions*MA: D3 R4  
PA: U1 H1 W1 E3

SA: S2 L2

*Context*EC: L1 C09,08  
SS: 3TC: A1 I2 R2  
SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 263

**6221-H HYDROPULPER OPERATOR (PAPERMAKING)**

Tends machine that reduces broke (trim and rejected paper) or dry pulp sheets to pulp slush for use in making paper.

Dumps broke or dry pulp sheets into machine vat and turns valves to admit water to soften material to specified consistency. Starts machine that reduces material to pulp. Opens discharge gate or starts pump to transport pulp to storage tanks.

*Job Content Factors**Workers*FP: GE NFR  
HC: RIP: T1m  
RQ: D2*Materials*

SM: T1

EQ: M1

*Functions*MA: D3 R4  
PA: U1 H1 W1 E3

SA: S2 L2

*Context*EC: L1 C08,09  
SS: 3TC: A1 I2 R1  
SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 263

**6221-I PULP TESTER (PAPERMAKING)**

Tests samples of pulp stock or sheet pulp during production, using standard equipment and procedures, to control quality and uniformity of product.

Collects samples from various production points for testing and prepares composite samples for laboratory. Measures freeness quality of pulp stock, using specialised industry testing apparatus, and calculates consistency by drying and weighing measured amount of pulp. Performs standard chemical analyses to determine lignin and liquor content of pulp. Measures acidity of pulp stock, using pH meter or titration apparatus. Prepares test sample of paper from pulp, using cylinder, wire screen and press, and counts dirt specks and shives (wood particles) in unit area of sheet. Measures weight and thickness and calculates density of pulp sheet, using scales, micrometer and slide rules. Tests sample for bursting strength. Calculates and records test results, material flow, machine speeds and other operating data, and reports abnormal test results to machine operators for corrective action.

May test strength of process materials, such as cooking liquor or paper additives such as alum.

**Job Content Factors**

**Workers**

FP: GE10-11y

IP: T3m E3y

HC: IRC

RQ: Q2 U2 D1 V1

**Materials**

SM: D2 P2 T1

EQ: S1 N2

**Functions**

MA: A2 D2 R3 M2 L2

PA: P2 U1 C2 H2 S2 W2 E2

SA: S1 L2

**Context**

EC: L1 C08

TC: A1 I2 T2

SS: 3

SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 263

**6221-Z PULP PREPARING OCCUPATIONS nec**

This residual group covers pulp preparing occupations not elsewhere classified in Unit Group 6221.

**6222 PAPERMAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS**

This unit group covers occupations primarily concerned with operating equipment that makes paper, paperboard and sheet pulp from pulp stock.

**Entry Requirements** in some cases year 9-10 and/or up to 2 years' experience.

**Activities include** operating wet end of paper machine to make paper or sheet pulp from pulp stock; operating wet end of paperboard machine to make paperboard; operating dryer, calender and winding sections of paper or paperboard machines; operating machine to glaze or impregnate paper with size or coating mixtures or to impart specified finish to surface of paper; operating winder to make rolls for shipments; tending cutter and layboy that cuts rolls of paper into sheets and stacks them; testing samples of each run of paper produced to control quality and uniformity; tending steam-heated hydraulic press that compresses wood pulp to form insulation board; and setting up, operating and adjusting machines concerned with fabricating and assembling paper products.

**6222-A PAPER MACHINE OPERATOR**

Operates wet end of paper machine to make paper or sheet pulp from pulp stock.

Turns valves and adjusts panel controls to start movement of white water and pulp stock into machine headbox. Starts machine and turns wheel to adjust flow of stock onto wire-mesh belt on which paper or other product is formed. Observes formation of product and removal of water. Visually inspects product samples and reviews laboratory reports. Adjusts volume and speed of stock flow, speed and pitch of wire belt, frequency and amplitude of belt shake, water removal by suction boxes and rolls, and pressure of rolls on pulp mats, according to type of pulp stock and product specified. Gives instructions to members of crew for operating machines that dry, size, calender, wind or cut paper products. Directs or assists workers engaged in changing wire belts etc. Tends auxiliary equipment such as agitators, pumps and filters. Compiles production records and reports.

May adjust, clean, make minor repairs and replace machine parts. May operate a particular type of machine and be designated accordingly, e.g.

Fourdrinier Machine Operator

**Job Content Factors**

**Workers**

FP: GE NFR

IP: T6m E1-2y

HC: RCE

RQ: D2 V1

**Materials**

SM: D2 P2 T1

EQ: S2 M1

**Functions**

MA: A2 D2 R3 M3 L2

PA: U1 C2 W1 E2

SA: S2 L1 B2 R4

**Context**

EC: L1 C09,08

TC: A1 I2

SS: 3

SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 263

**6222-B PAPERBOARD MACHINE OPERATOR**

Operates wet end of paperboard machine to make paperboard.

Turns valves to start flow of water and specified types of pulp stock into cylinder vats or headboxes. Starts machine and turns handwheels or valves, or adjusts panel controls to regulate flow of stock onto wire mesh of belt or revolving pick-up cylinder. Observes operation of machine as prescribed number of plies are formed. Visually inspects product samples and reviews laboratory reports. Adjusts volume and speed of stock flow, speed of wire belt or cylinder etc. according to type of pulp stock and product specified. Gives instructions to members of crew for operating machines that dry, size, calender, wind or cut paperboard products. Directs or assists

workers engaged in changing wire belts or cylinders etc. Tends auxiliary equipment such as agitators, pumps and filters. Compiles production records and reports.

May adjust, clean, make minor repairs and replace machine parts. May operate a particular type of machine and be designated accordingly, e.g.

Cylinder Machine Operator    Inverform Machine Operator

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T6m E1-2y
HC: RCE	RQ: D2 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S2 M1
<i>Functions</i>	
MA: A2 D2 R3 M3 L2	
PA: U1 C2 W1 E2	SA: S2 L1 B2 R4
<i>Context</i>	
EC: L1 C09,08	TC: A1 I2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 263

**6222-C            DRYER OPERATOR, PAPER MACHINE**

Operates dryer, calender and the winding sections of paper or paperboard machines.

Threads continuous sheet of paper through carrier, dryer and calender rolls by hand. Observes charts and gauges, and turns valves to adjust steam pressure and temperature of dryer and calender and hot-air rolls, and to control running speed of sheet. Inspects sheet for defects, such as dirt, slime spots, holes and wrinkles, and marks defective portions for removal at rewinding sections. Directs workers engaged in winding and rewinding, slitting, weighing and wrapping paper rolls and sheets.

May operate size tub or spray paper with steam, water or dyes to obtain specified finish.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T3m E1-2y
HC: RIE	RQ: V1
<i>Materials</i>	
SM: P2 T1	EQ: S2 M1
<i>Functions</i>	
MA: D2 R3 M3 L2	
PA: U1 C2 H1 W1 E3	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1 C08,09	TC: A1 I2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 263

**6222-D            COATING MACHINE OPERATOR  
                         (PAPERMAKING)**

Operates machine to glaze or impregnate paper or paperboard with size or coating mixtures, such as clay, wax, adhesive, plastic or waterproofing solution.

Adjusts spreader rollers and clips or fastens brushes, rollers or scraper blade in machine, using hand tools, to spread coating to specified depth on paper. Loads paper roll on machine feed rack and threads paper through spreader, tension, pressure and dryer rolls. Turns valves and starts pump to admit specified coating mixture into machine tank. Starts machine and observes paper to detect wrinkles, breaks and uneven colouring. Turns handwheel or levers to adjust tension of paper and pressure of rollers. Compiles production reports. Directs helper to assist in positioning rolls and threading paper through machine.

May verify thickness of coating with micrometer or by weighing samples.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T3m Ely
HC: R	RQ: V1
<i>Materials</i>	
SM: T1	EQ: S2 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E3	SA: S1 L2 B2 R4
<i>Context</i>	
EC: L1 C08,09	TC: A1 I2 R1
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 263

**6222-E            SUPERCALENDER OPERATOR**

Operates supercalender machine to impart specified finish to surface of paper.

Positions roll of paper on machine reel stand, using hoist with assistance of other workers. Fastens collar and alignment guides on shaft to secure roll, using hand tools. Threads paper around feed, calender and tension rolls, and wraps end around core shaft of rewinder roll. Observes temperature gauge and turns valve to regulate flow of steam to calender rolls. Turns handwheels to control tension of paper and pressure of rolls. Inspects paper during rewinding for such defects as dirt, slime spots or wrinkles, and to ensure compactness of winding. Compiles production reports.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T3m Ely
HC: R1	RQ: D2 V1
<i>Materials</i>	
SM: T1	EQ: S2 M1
<i>Functions</i>	
MA: D3 R4	
PA: U1 C1 H2 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C09,08	TC: A1 I2 R2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 263

**6222-F            WINDER OPERATOR**

Operates winder at dry end of papermaking machine to slit and wind paper from reel onto cardboard cores and make rolls for shipment.

Reads production orders and directs workers to position slitting knives, place cores on winder shaft, thread paper through feeding mechanism and wrap paper around cores to start roll. Starts winder revolving, from console, observes slitting and winding of paper, and adjusts friction brake lever to maintain tension on paper. Observes sheet being wound to locate defects, such as dirt, slime spots, holes and wrinkles, and marks defective portions with chalk. Verifies perforations, and size and alignment of rolls being formed. Assists other workers to thread paper sheet through dryer and calender rolls of paper machine, using air hose. Positions empty reel shaft on paper machine carriage supports, using hoist. Brakes continuous sheet of paper with air or water hose when active reel is filled and blows free end of paper around empty shaft to start new reel. Lifts full reel from paper-machine carriage with hoist, moves it to winding machine and positions it in winder carriage.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T2m
HC: R	RQ: V2
<i>Materials</i>	
SM: T1	EQ: N2 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 H2 W1 E4	SA: S2 L2

<i>Context</i>	
EC: L1 C09	TC: A1 I2 R2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 263

6222-G            REWINDER OPERATOR

Tends machine that winds paper from one roll to another to form compact rolls of specified length or diameter.

Slides roll core (tube) on rewind shaft. Threads end of parent roll into feeding mechanism of machine and adjusts friction brake. Wraps end of roll around core or expandable rewind shaft and starts machine. Verifies alignment of rewind roll and adjusts machine, using hand tools. Stops machine and removes rewound roll from shaft.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T2m
HC: R	RQ: V2
<i>Materials</i>	
SM: T1	EQ: N2 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 H2 W1 E4	SA: S2 L2
<i>Context</i>	
EC: L1 C09	TC: A1 I2 R2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 263

6222-H            CUTTER OPERATOR (PAPER)

Tends cutter and layboy that cuts rolls of paper into sheets and stacks them, performing any combination of the following duties.

Inserts steel shaft through core of paper roll. Lifts roll onto machine feed rack, using hoist, and fastens collars on shaft to centre and secures roll in position. Positions layboy guide stops and stacking paddles, using rule and wrench. Observes sheets as they fall into layboy to detect such defects as spots, holes, wrinkles, cockled edges and dirt, and discards defective sheets. Smooths sheets by hand or compresses sheets using air piston to eliminate air pockets. Places skid under layboy and transfers sheets from layboy to skid. Aligns sheets on skid and removes full skid using hydraulic lift.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T2m
HC: R	RQ: V2
<i>Materials</i>	
SM: T1	EQ: S1 M1 V2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 H1 W1 E4	SA: S2 L2
<i>Context</i>	
EC: L1 C09	TC: A1 I1 R1
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 263

6222-I            PAPER MACHINE HAND

Performs any combination of the following duties at dry end of papermaking machine.

Adjusts paper slitting knives of winder as directed, using hand tools. Slides cardboard cores onto winder shaft, threads paper through feeding mechanism and wraps end around core to begin roll. Examines paper being wound for defects and marks defects with chalk or paper strip. Pulls broke (scrap paper) from dryer, calender rolls and winding area. Assists in threading paper sheet through dryer and calender rolls. Cleans machinery, equipment and work area, using air and water hoses, detergents, brushes and rags.

May lubricate machines. May transport broke to beater for reprocessing.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T1m
HC: R	RQ: V2
<i>Materials</i>	
SM: T1	EQ: S2 N1 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 H2 W1 E4	SA: S2 L2
<i>Context</i>	
EC: L1 C09	TC: A1 I1 R1
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 263

6222-J            PAPER TESTER

Tests samples of each run of paper produced, using standard testing equipment and procedures, to control quality and uniformity of products.

Weighs sample of specified size, measures thickness with micrometer and calculates density of paper sheet. Dries and reweighs sample to determine moisture content. Counts dirt specks and wood particles on unit area of sample. Examines paper to detect curl or surface fuzziness. Tests samples for bursting, tearing, tensile strength, folding, stiffness strengths, friction, crush resistance and adhesive quality, following standard procedures, and using special industrial testing machines. Measures brightness, colour and opacity with reflectance meter, and smoothness and porosity with densimeter or porosity meter. Measures oil absorbency rate of paper with stop watch. Prepares samples for laboratory testing. Records test results. Reports abnormal test results to machine operators for corrective action.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10- 9y	IP: T3m
HC: RIE	RQ: V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M2
<i>Functions</i>	
MA: A2 D2 R3 M2 L2	
PA: P2 U1 C2 S1 W2 E2	SA: S2 L1
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 263

6222-K            PRESS OPERATOR, INSULATION BOARD

Tends steam-heated hydraulic press that compresses wood pulp to form insulation board.

Turns steam valve to heat pressing plates. Presses button to activate press and lower ram as pulp sheets are automatically transferred from forming line onto press plates. Observes temperature and pressure gauge. Raises ram after pressing while pressed board is automatically conveyed out of press and transferred to trimming and painting machine or to humidifier. Maintains production records.

May measure thickness of pressed boards periodically, using micrometer, to maintain standard quality of product. May tend presses that compress sheets of cardboard or paper to form paperboard.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T2m
HC: R	RQ: D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: S2 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C1 H2 W1 E3	SA: S2 L2

<i>Context</i>	
EC: L1 C09,08	TC: A1 I2 R2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 263

**6222-L PAPER PRODUCT FABRICATING AND ASSEMBLING MACHINE OPERATOR**

Sets up, operates and adjusts machines concerned with fabricating and assembling paper products such as paper bags, boxes, containers, liners, envelopes and similar items.

Feeds rolls of paper or cardboard into machine. Sets and adjusts controls of machine. Observes machine in operation and examines end product to detect malfunctioning.

May remove and stack finished product. May perform minor maintenance to machine, using hand tools.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T1-3m
HC: R	RQ: V2
<i>Materials</i>	
SM: T1	EQ: S2 N2 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C2 H2 W1 E4	SA: S2 L2
<i>Context</i>	
EC: L1 C09	TC: A1 I2 R2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 263

**6222-Z PAPERMAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS nec**

This residual group covers papermaking and finishing occupations, not elsewhere classified in Unit Group 6222.

## **MAJOR GROUP 63**

### **CHEMICAL PROCESSING OCCUPATIONS**

Chemical Processing Occupations are classified in the following minor groups.

- 630 General Chemical Processing Occupations
- 631 Plastics Production Occupations
- 632 Rubber Production Occupations
- 633 Pharmaceuticals and Toiletries Production Occupations
- 634 Explosives Production Occupations
- 635 Petroleum Products Processing Occupations
- 639 Other Chemical Processing Occupations

It should be noted that occupations in Minor Group 630 are concerned with general processes which may be performed on a range of chemical products, while occupations in the remaining minor groups are unique to the processing of the particular chemical product(s) concerned.

**630 GENERAL CHEMICAL PROCESSING OCCUPATIONS****6300 FOREMEN/WOMEN, GENERAL CHEMICAL PROCESSING OCCUPATIONS**

- 6300-A Foreman/woman, Pilot Plant Occupations (Chemicals)  
 6300-B Foreman/woman, Inspecting, Testing, Grading and Sampling Occupations (Chemicals)  
 6300-C Foreman/woman, Roasting, Cooking and Drying Occupations (Chemicals)  
 6300-D Foreman/woman, Crushing and Grinding Occupations (Chemicals)  
 6300-E Foreman/woman, Filtering, Straining and Separating Occupations (Chemicals)  
 6300-F Foreman/woman, Mixing and Blending Occupations (Chemicals)  
 6300-G Foreman/woman, Coating and Calendering Occupations (Chemicals)  
 6300-H Foreman/woman, Distilling, Subliming and Carbonising Occupations (Chemicals)  
 6300-Z Foremen/women, General Chemical Processing Occupations nec

**6301 INSPECTING AND TESTING OCCUPATIONS, CHEMICAL PROCESSING**

- 6301-A Physical Testing Technician  
 6301-B Chemical Testing Technician  
 6301-C Inspector, Pharmaceuticals and Toiletries  
 6301-D Non-Destructive Testing Technician

**6302 PLANT OPERATORS, GENERAL CHEMICAL PROCESSING**

- 6302-A Chemical Process Unit Operator  
 6302-B Pilot Plant Operator (Chemicals)  
 6302-C Chemical Process Operator, Batching  
 6302-D Mixer (Chemicals)  
 6302-E Compounder (Chemicals)  
 6302-F Solutions Plant Operator  
 6302-G Distillation Operator (Chemicals)  
 6302-H Batch Still Operator (Chemicals)  
 6302-I Filter Press Operator (Chemicals)  
 6302-J Vacuum Pan Operator (Chemicals)  
 6302-K Make-up Plant Operator (Chemicals)  
 6302-L Chlorination Plant Operator (Chemicals)  
 6302-M Acid Plant Operator  
 6302-N Recovery Plant Operator  
 6302-O Kettle Operator (Chemicals)  
 6302-P Calender Operator  
 6302-Z Plant Operators, General Chemical Processing nec

**6303 ASSISTANTS, GENERAL CHEMICAL PROCESSING AND TESTING**

- 6303-A Assistant, Inspecting and Testing (Chemicals)  
 6303-B Assistant Plant Operator, General Chemical Processing

**632 RUBBER PRODUCTION OCCUPATIONS****6320 FOREMEN/WOMEN, RUBBER PRODUCTION OCCUPATIONS**

- 6320-A Foreman/woman, Rubber Production Occupations

**6321 TYRE PRODUCTION OCCUPATIONS**

- 6321-A Tyre Builder  
 6321-B Tyre Retreader  
 6321-Z Tyre Production Occupations nec

**6322 RUBBER PRODUCTS OCCUPATIONS (EXCEPT TYRES)**

- 6322-A Knitting Machine Operator, Rubber Products  
 6322-B Roll Builder  
 6322-C Roller Grinder Operator  
 6322-D Tank Liner  
 6322-Z Rubber Products Occupations (Except Tyres) nec

**631 PLASTICS PRODUCTION OCCUPATIONS****6310 FOREMEN/WOMEN, PLASTICS PRODUCTION OCCUPATIONS**

- 6310-A Foreman/woman, Plastics Production Occupations

**6311 MACHINE SETTING OCCUPATIONS, PLASTICS PRODUCTS**

- 6311-A Extruding Machine Setter (Plastics)  
 6311-B Injection/Compression/Transfer Moulding Machine Setter  
 6311-C Blow Moulding Machine Setter  
 6311-D Cellular Plastics Machine Setter  
 6311-E Thermoforming Machine Setter  
 6311-F Rotational Moulding Machine Setter  
 6311-Z Machine Setting Occupations, Plastics Products nec

**6312 PLANT OPERATORS, PLASTICS PRODUCTS**

- 6312-A Plastics Blending Machine Operator  
 6312-B Extruding Machine Operator (Plastics)  
 6312-C Injection/Compression/Transfer Moulding Machine Operator  
 6312-D Blow Moulding Machine Operator  
 6312-E Cellular Plastics Machine Operator  
 6312-F Thermoforming Machine Operator  
 6312-G Rotational Moulding Machine Operator  
 6312-H Plastics Sheet Press Operator  
 6312-Z Plant Operators, Plastics Products nec

**6313 PROCESS WORKERS, PLASTICS PRODUCTS**

- 6313-A Powder Hand (Plastics)  
 6313-B Cellular Plastics Cutter  
 6313-C Mould Hand (Plastics)  
 6313-D Gun Hand (Plastics)  
 6313-E Hand Laminator  
 6313-Z Process Workers, Plastics Products nec

**6319 OTHER PLASTICS PRODUCTION OCCUPATIONS**

- 6319-A Examiner, Plastics Products  
 6319-B Plastics Sheet Fabricator  
 6319-Z Plastics Production Occupations nec

**633 PHARMACEUTICALS AND TOILETRIES PRODUCTION OCCUPATIONS****6330 FOREMEN/WOMEN, PHARMACEUTICALS AND TOILETRIES PRODUCTION OCCUPATIONS**

- 6330-A Foreman/woman, Pharmaceuticals Production Occupations  
 6330-B Foreman/woman, Toiletries Production Occupations

**6331 PLANT OPERATORS, PHARMACEUTICALS AND TOILETRIES PRODUCTS**

- 6331-A Pharmaceutical Operator  
 6331-B Sterile Products Processer  
 6331-C Fermenter, Antibiotics  
 6331-D Autoclave Operator (Chemicals)  
 6331-E Granulator Machine Operator  
 6331-F Tablet Making Machine Operator  
 6331-G Tablet Coating Machine Operator  
 6331-H Ampoule Filler

**6332 PROCESS WORKERS, PHARMACEUTICALS AND TOILETRIES PRODUCTS**

- 6332-A Suture Maker  
 6332-B Toiletries Moulder and Compressor  
 6332-Z Process Workers, Pharmaceuticals and Toiletries Products nec

**6333 ASSISTANT PLANT OPERATORS, PHARMACEUTICALS AND TOILETRIES PRODUCTS**

- 6333-A Assistant Plant Operator, Pharmaceuticals and Toiletries Products  
 6333-B Assistant Sterile Products Processer  
 6333-C Assistant Fermenter, Antibiotics

**634 EXPLOSIVES PRODUCTION OCCUPATIONS****6340 FOREMEN/WOMEN, EXPLOSIVES PRODUCTION OCCUPATIONS**

- 6340-A Foreman/woman, Explosives Production Occupations

**6341 PLANT OPERATORS, EXPLOSIVES PRODUCTION**

- 6341-A Mixer Operator, Explosives  
 6341-B Powder Blender, Explosives  
 6341-C Nitrocellulose Maker  
 6341-D Fuse Maker  
 6341-E Bullet Maker

**6342 PROCESS WORKERS, EXPLOSIVES PRODUCTION**

- 6342-A Munitions Maker  
 6342-B Munitions Hand  
 6342-C Munitions Handler

**6343 ASSISTANT PLANT OPERATORS, EXPLOSIVES PRODUCTION**

- 6343-A Assistant Plant Operator, Explosives Production

**635 PETROLEUM PRODUCTS PROCESSING OCCUPATIONS****6350 FOREMEN/WOMEN, PETROLEUM PRODUCTS PROCESSING OCCUPATIONS**

- 6350-A Foreman/woman, Petroleum Process Unit Operations  
 6350-B Foreman/woman, Blending and Shipping (Crude Petroleum)

**6351 PLANT OPERATORS, PETROLEUM PRODUCTS PROCESSING**

- 6351-A Plant Operator, Petroleum Process Units  
 6351-B Plant Operator, Grease Manufacture  
 6351-C Plant Operator, Pumping, Blending and Shipping (Petroleum Products)  
 6351-D Plant Operator (Oil Terminal)

**6352 ASSISTANT PLANT OPERATORS, PETROLEUM PRODUCTS PROCESSING**

- 6352-A Assistant Plant Operator, Petroleum Process Units  
 6352-B Assistant Plant Operator, Grease Manufacture  
 6352-C Assistant Plant Operator, Pumping, Blending and Shipping (Petroleum Products)  
 6352-D Assistant Plant Operator (Oil Terminal)

**639 OTHER CHEMICAL PROCESSING OCCUPATIONS****6390 FOREMEN/WOMEN, INDUSTRIAL AND MEDICAL GASES PRODUCTION OCCUPATIONS**

- 6390-A Foreman/woman, Industrial and Medical Gases Production Occupations

**6391 FOREMEN/WOMEN, PHOTOGRAPHIC PROCESSING OCCUPATIONS**

- 6391-A Foreman/woman, Photographic Processing Occupations

**6392 PLANT OPERATORS, INDUSTRIAL AND MEDICAL GAS PRODUCTS**

- 6392-A Acetylene Plant Operator  
 6392-B Dry Ice Maker  
 6392-C Liquid Gas Plant Operator

**6393 PROCESS WORKERS, INDUSTRIAL AND MEDICAL GAS PRODUCTS**

- 6393-A Compressed Gas Plant Worker  
 6393-B Pressurised Container Filler

**6394 PROCESS WORKERS, PHOTOGRAPHIC PRODUCTS**

- 6394-A Photographic Developer and Printer  
 6394-B Film Spooler

**6399 OTHER CHEMICAL PROCESSING OCCUPATIONS**

- 6399-A Linoleum Maker  
 6399-B Soap Maker  
 6399-C Water Treatment Plant Operator  
 6399-D Waste Water Treatment Plant Operator  
 6399-E Assistant, Other Chemical Processing Occupations  
 6399-Z Chemical Processing Occupations nec

## MINOR GROUP 630 GENERAL CHEMICAL PROCESSING OCCUPATIONS

General Chemical Processing Occupations are classified in the following unit groups.

- |      |   |
|------|---|
| 6300 | Foremen/women, General Chemical Processing Occupations  |
| 6301 | Inspecting and Testing Occupations, Chemical Processing |
| 6302 | Plant Operators, General Chemical Processing            |
| 6303 | Assistants, General Chemical Processing and Testing     |

### 6300 FOREMEN/WOMEN, GENERAL CHEMICAL PROCESSING OCCUPATIONS

This unit group covers supervisory occupations concerned with general chemical production and processing activities.

**Entry Requirements** a basic vocational/trade/para-professional qualification in an appropriate area, plus at least 3-5 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### 6300-A FOREMAN/WOMAN, PILOT PLANT OCCUPATIONS (CHEMICALS)

Supervises and co-ordinates activities of workers engaged in operating small-scale chemical production equipment, under experimental conditions, to test methods and chemical processes for product development.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Sets up and modifies equipment, according to specifications, to produce experimental products. Directs operators in operations associated with the development of new formulas and with safe handling of new formulations. Maintains close liaison with development laboratory personnel and production departments. Identifies waste by-product materials involved in new product development and co-ordinates with waste control engineer for proper disposal procedures.

May assist development chemist in analysing test results and recommend corrective action to be taken.

##### Job Content Factors

###### Workers

FP: GE10-12y PSP1-3y(PPC) / (B)	IP: E5y
or FP: GE10-12y PSP4y(T)	IP: E3-5y
HC: RSE	RQ: Q2 D1 V1

###### Materials

SM: D2 P1 T2	EQ: P2 S2 M2
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###### Functions

MA: A2 P1 D2 R3 M2 L2	
PA: U2 H1 S2 W2 E2	SA: S1 L2 B1 R3-4

###### Context

EC: L1 C08,02,09	TC: A1 I2
SS: 7	SC: 8 (10y)

LMS: NA (1%SE)

ASIC: 27

#### 6300-B FOREMAN/WOMAN, INSPECTING, TESTING, GRADING AND SAMPLING OCCUPATIONS (CHEMICALS) Foreman/woman, Inspection (Chemicals); Foreman/woman, Quality Control (Chemicals)

Supervises and co-ordinates activities of workers engaged in quality control functions such as inspecting, testing, grading and sampling in processing of petroleum products, rubber, plastic, and other chemicals and chemical products.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers concerned with a particular quality control activity and be designated accordingly, e.g.

Foreman/woman, Carbon and Graphite Inspectors, Sampling and Testing  
Foreman/woman, Explosives Products, Sampling and Testing  
Foreman/woman, Industrial Gases, Sampling and Testing  
Foreman/woman, Petroleum Products, Sampling and Testing  
Foreman/woman, Pharmaceutical Products, Sampling and Testing  
Foreman/woman, Physical Testing  
Foreman/woman, Plastics Products, Sampling and Testing  
Foreman/woman, Rubber Products, Sampling and Testing  
Foreman/woman, Sterile Products, Sampling and Testing

##### Job Content Factors

###### Workers

FP: GE10-12y PSP1-3y(PPC) / (B)	IP: E5y
or FP: GE10-12y PSP4y(T)	IP: E3-5y
HC: RSE	RQ: Q2 D1 V1

###### Materials

SM: D2 P1 T2	EQ: P2 S2 M2
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*Functions*

MA: A2 P1 D2 R3 M2 L2  
 PA: P1 U2 H1 S2 W2 E3  
 SA: S1 B1 R3-4

*Context*

EC: L1 C08,09,02  
 SS: 7  
 TC: A1 I2 R2  
 SC: 7 (10y)

LMS: NA ( 3%SE)

ASIC: 27

### 6300-C FOREMAN/WOMAN, ROASTING, COOKING AND DRYING OCCUPATIONS (CHEMICALS)

Supervises and co-ordinates activities of workers engaged in operating and tending equipment that subjects chemicals and related materials to heat, air, vacuum or desiccants to melt, dry, char, purify, concentrate, liquefy or change chemical composition.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.

Foreman/woman, Carbon Processing  
 Foreman/woman, Cooking (Chemical Recovery)  
 Foreman/woman, Dryers (Chemicals)  
 Foreman/woman, Phosphorus Processing  
 Foreman/woman, Reactor Unit  
 Foreman/woman, Varnish

*Job Content Factors**Workers*

FP: GE10-12y PSP1-3y(PPC) / (B)  
 or FP: GE10-12y PSP4y(T)  
 HC: RSE  
 IP: E5y  
 IP: E3-5y  
 RQ: Q2 D1 V1

*Materials*

SM: D2 P1 T2  
 EQ: P2 S2 M2

*Functions*

MA: A2 P1 D2 R3 M3 L2  
 PA: P2 U2 H1 S2 W2 E2  
 SA: S1 L2 B1 R3-4

*Context*

EC: L1 C02,08,09  
 SS: 6  
 TC: A1 I2  
 SC: 6 (10y)

LMS: NA ( 3%SE)

ASIC: 27

### 6300-D FOREMAN/WOMAN, CRUSHING AND GRINDING OCCUPATIONS (CHEMICALS)

Supervises and co-ordinates activities of workers engaged in operating and tending machines that crush, grind, pulverise, dice, cut, shred, chip, mill, flake and pelletise to reduce size of chemical materials such as rubber and plastics.

Performs duties under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in grinding and packaging particular ingredients and be designated accordingly, e.g.

Foreman/woman, Grinding and Packaging

*Job Content Factors**Workers*

FP: GE10-12y PSP1-3y(PPC) / (B)  
 or FP: GE10-12y PSP4y(T)  
 HC: RSE  
 IP: E5y  
 IP: E3-5y  
 RQ: Q2 D1 V1

*Materials*

SM: D2 P1 T2  
 EQ: P2 S2 M2

*Functions*

MA: A2 P1 D2 R3 M3 L2  
 PA: U2 H2 S2 W2 E3  
 SA: S1 L2 B1 R3-4

*Context*

EC: L1 C08,09,02  
 SS: 7  
 TC: A1 I2  
 SC: 7 (10y)

LMS: NA ( 3%SE)

ASIC: 27

### 6300-E FOREMAN/WOMAN, FILTERING, STRAINING AND SEPARATING OCCUPATIONS (CHEMICALS)

Supervises and co-ordinates activities of workers engaged in operating and tending equipment that treats chemicals, such as petroleum products, rubber, plastics and related materials by agitating, centrifuging, filtering, screening, settling, straining, sifting, squeezing and similar methods.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.

Foreman/woman, Bitumen Extraction Plant  
 Foreman/woman, Brine  
 Foreman/woman, Clarification (Chemicals)  
 Foreman/woman, Dehydration (Chemicals)  
 Foreman/woman, Filtration (Chemicals)  
 Foreman/woman, Purification (Chemicals)  
 Foreman/woman, Viscose Filtration

*Job Content Factors**Workers*

FP: GE10-12y PSP1-3y(PPC) / (B)  
 or FP: GE10-12y PSP4y(T)  
 HC: RSE  
 IP: E5y  
 IP: E3-5y  
 RQ: Q2 D1 V1

*Materials*

SM: D2 P1 T2  
 EQ: P2 S2 M2

*Functions*

MA: P2 D2 R3 M3 L2  
 PA: U2 H2 W1 E3  
 SA: L1 B1 R3-4

*Context*

EC: L1 C02,08,09  
 SS: 7  
 TC: A1 I2  
 SC: 7 (10y)

LMS: NA ( 3%SE)

ASIC: 27

### 6300-F FOREMAN/WOMAN, MIXING AND BLENDING OCCUPATIONS (CHEMICALS)

Supervises and co-ordinates activities of workers engaged in weighing, mixing, blending, compounding, matching, combining and mingling chemical substances such as petroleum, rubber, plastics, and related materials, by hand or specialised machines, to produce a single wet or dry mass or compound or to achieve quality, texture, colour or similar characteristics.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in mixing and blending particular ingredients in a variety of industries and be designated accordingly, e.g.

Foreman/woman, Battery Paste  
 Foreman/woman, Compounding  
 Foreman/woman, Grease Plant  
 Foreman/woman, Reagents  
 Foreman/woman, Viscose  
 Foreman/woman, Ink Preparation  
 Foreman/woman, Cleaning Compounds  
 Foreman/woman, Explosives Mixing  
 Foreman/woman, Pharmaceutical Compounding

*Job Content Factors**Workers*

FP: GE10-12y PSP1-3y(PPC) / (B)  
 or FP: GE10-12y PSP4y(T)  
 HC: RSE  
 IP: E5y  
 IP: E3-5y  
 RQ: Q2 D1 V2

*Materials*

SM: D2 P1 T2  
 EQ: P2 M2

*Functions*

MA: P2 D2 R3 M3 L2  
 PA: U2 H2 W1 E3  
 SA: L1 B1 R3-4

*Context*

EC: L1 C02,08,09  
 SS: 6  
 TC: A1 I2  
 SC: 6 (10y)

LMS: NA ( 3%SE)

ASIC: 27

**6300-G FOREMAN/WOMAN, COATING AND CALENDERING OCCUPATIONS (CHEMICALS)**

Supervises and co-ordinates activities of workers engaged in operating, tending and feeding, machines or equipment, that calender, coat, dip, saturate, impregnate or laminate chemical substances such as rubber, plastics or related materials to impart a desired finish or uniform thickness.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in coating or calendering specific materials for a variety of purposes and be designated accordingly, e.g.

Foreman/woman, Calendering  
Foreman/woman, Coating  
Foreman/woman, Gasket Coating  
Foreman/woman, Linoleum Making  
Foreman/woman, Artificial Leather Coating  
Foreman/woman, Latex Carpetbacking Department  
Foreman/woman, Plastic Film Coating  
Foreman/woman, Roofing Materials

**Job Content Factors****Workers**

FP: GE10-12y PSP1-3y(PPC) / (B) IP: E5y  
or FP: GE10-12y PSP4y(T) IP: E3-5y  
HC: RSE RQ: Q2 D1 V2

**Materials**

SM: D2 P1 T2 EQ: P2 M2

**Functions**

MA: P2 D2 R3 M3 L2  
PA: U2 H2 S2 W2 E2 SA: S2 L2 B1 R2-4

**Context**

EC: L1 C02,08,09 TC:  
SS: 7 SC: 7 (10y)

LMS: NA (1%SE)

ASIC: 27

**6300-H FOREMAN/WOMAN, DISTILLING, SUBLIMING AND CARBONISING OCCUPATIONS (CHEMICALS)**

Supervises and co-ordinates activities of workers engaged in operating and tending equipment that heats chemicals and related materials to vapourise and separate volatile substances; cools, condenses and precipitates refined substances; liquefies

and distills natural and industrial gases; and removes or obtains gases, condensates or residues in stills, ovens or retorts.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.

Foreman/woman, Alum Plant  
Foreman/woman, By-Products (Chemicals)  
Foreman/woman, Caustic Plant  
Foreman/woman, Chlorine Plant  
Foreman/woman, Distillation (Chemicals)  
Foreman/woman, Evaporator  
Foreman/woman, Glycerine Refinery  
Foreman/woman, Natural Gas Plant  
Foreman/woman, Ovens (Chemicals)  
Foreman/woman, Soda Ash  
Foreman/woman, Vacuum Pans (Chemicals)

**Job Content Factors****Workers**

FP: GE10-12y PSP1-3y(PPC) / (B) IP: E5y  
or FP: GE10-12y PSP4y(T) IP: E3-5y  
HC: RSE RQ: Q2 V2

**Materials**

SM: D2 P1 T2 EQ: M2

**Functions**

MA: P2 D2 R3 M3 L2  
PA: U2 H2 W1 E3 SA: L1 B1 R3-4

**Context**

EC: L1 C02,08,09 TC: A1 I2  
SS: 7 SC: 7 (10y)

LMS: NA (1%SE)

ASIC: 27

**6300-Z FOREMEN/WOMEN, GENERAL CHEMICAL PROCESSING OCCUPATIONS nec**

This residual group covers supervisory occupations concerned with chemical production and processing not elsewhere classified in Unit Group 6300, e.g.

Foreman/woman, Acid Plant  
Foreman/woman, Millroom (Chemicals)  
Foreman/woman, Pigments  
Foreman/woman, Fertilisers  
Foreman/woman, Agricultural Chemicals

**6301 INSPECTING AND TESTING OCCUPATIONS, CHEMICAL PROCESSING**

This unit group covers occupations concerned with testing and quality control functions relating to the production and processing of chemicals.

**Entry Requirements** a basic vocational or para-professional certificate in quality control.

**Activities include** carrying out physical, chemical, non-destructive and other testing and quality control functions on chemical products, including pharmaceuticals and toiletries.

**6301-A PHYSICAL TESTING TECHNICIAN**

Carries out a limited number of technical functions in physical testing, primarily in relationship to operation, maintenance and quality control activities.

Sets up and operates tensile strength testers, plastometers, hydraulic presses and other special test equipment to test wood, metal, rubber, plastic, glass, ceramic and other products. Examines metal and alloy samples with ultrasonic,

cyclograph and magnetic flux equipment to detect internal fractures, impurities and similar defects, and to sort and grade metal. Tests samples in pressure devices, hot acid baths and other apparatus to determine strength, hardness, elasticity and other characteristics of metal. Maintains and repairs test equipment, using hand and machine tools and manufacturer's schematic diagrams for guidance.

May be concerned with a particular aspect of physical testing and be designated accordingly, e.g.

Heat Metal Technician

Rubber Laboratory Technician

#### Job Content Factors

<i>Workers</i>	
FP: GE10-12y PSP3-24m(PPC) / (B)	IP: T2m
HC: RC	RQ: D1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: A1 P2 D2 R3 M2 L2	
PA: P2 U2 H1 S2 W2 E2	SA: S2 L2
<i>Context</i>	
EC: L1 C08,02,09	TC: A1 I2
SS: 4	SC: 6 (10y)
LMS: NA ( 1%SE)	ASIC: 27

### 6301-B CHEMICAL TESTING TECHNICIAN

Carries out a limited number of technical functions in chemistry, primarily in relation to operation, maintenance and quality and process control activities.

Sets up and operates small-scale chemical pilot plant equipment, under laboratory conditions, for testing chemical methods and processes, following specifications and guidance from research chemists and engineers. Mixes chemical solutions, as directed, for use in tests. Tests compounds used in various processes for strength, specific gravity and other factors.

May be concerned with a particular activity related to chemical testing and be designated accordingly, e.g.

Chemical Laboratory Technician

Household Products Technician

#### Job Content Factors

<i>Workers</i>	
FP: GE10-12y PSP3-24m(PPC) / (B)	IP: T2m
HC: RC	RQ: D1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S2
<i>Functions</i>	
MA: A1 P2 D2 R3 M2 L2	
PA: P1 U2 H1 S2 W2 E2	SA: S2 L2
<i>Context</i>	
EC: L1 C08,02,09	TC: A1 I2
SS: 4	SC: 6 (10y)
LMS: 4000-5000( 1%SE)	ASIC: 27

### 6301-C INSPECTOR, PHARMACEUTICALS AND TOILETRIES

#### Pharmaceutical Inspector

Conducts testing and quality control programs during production of pharmaceuticals and toiletries, to ensure conformity with standards and regulations.

Participates in establishing procedures for testing and quality control of products, according to established techniques of sampling, controlled production, testing and statistical analysis of test results. Reviews laboratory test reports, charts, and similar data prepared for each batch of product under test, to ensure conformity with government standards and company

or consumer specifications, as determined by accepted laboratory procedures and experience with previously tested products. Recommends full scale production of batches meeting quality standards and destruction of rejected batches, as authorised by supervisor. Investigates customer complaints of ineffective, stale, toxic or misbranded products, by reviewing production records and test reports. Recommends procedures for rectifying valid complaints and preventing recurrence. Confers with government inspectors and quality control staff to resolve problems affecting manufacture and sale of company products.

#### Job Content Factors

<i>Workers</i>	
FP: GE10-12y PSP2-24m(PPC) / (B)	IP: T2m
HC: RSE	RQ: Q2 U2 D1 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P1 S2
<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M2 L2	
PA: P1 U2 H1 S2 W2 E2	SA: S2 L2 P1 B1 R2-4
<i>Context</i>	
EC: L1 C08,02,09	TC: A1 I2
SS: 5	SC: 5 (5 y)
LMS: 1500-2000( 1%SE)	ASIC: 27

### 6301-D NON-DESTRUCTIVE TESTING TECHNICIAN

Carries out one or more non-destructive testing procedures on materials and products to detect faults, to predict the future service life of items tested, and to provide production quality control data.

Performs non-destructive testing procedures such as surface testing, radiograph exposure, and processing and thickness measurement by ultrasonic radiation, interprets data and reports results for production quality control.

May specialise in one variety of test or apparatus and be designated accordingly, e.g.

Boiler Testing Technician

Dye Penetrant Testing Technician

Eddy Current Testing Technician

Fluoroscopic Testing Technician

Magnetic Testing Technician

Pipe Testing Technician

Pressure Testing Technician

Ultrasonic Immersion Testing Technician

Ultrasonic Testing Technician

#### Job Content Factors

<i>Workers</i>	
FP: GE10-12y PSP2-24m(PPC) / (B)	IP: T2m
HC: RSE	RQ: Q2 U2 D1 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ: P1 S2
<i>Functions</i>	
MA: I1 A1 P1 D2 R2 M2 L2	
PA: P1 U2 H1 S2 W2 E2	SA: S2 L2 P1 B1 R2-4
<i>Context</i>	
EC: L1 C08,02,09	TC: A1 I2
SS: 4	SC: 6 (10y)
LMS: NA ( 1%SE)	ASIC: 27

## 6302 PLANT OPERATORS, GENERAL CHEMICAL PROCESSING

This unit group covers occupations concerned with operating plant to produce and process a wide range of chemicals.

**Entry Requirements** Year 10 plus 3 years' related work experience.

**Activities include** operating plant to mix, compound, distill, filter, heat, chlorinate, recover and otherwise process chemicals, in batch or continuous mode, in order to produce specified industrial or consumer products.

### 6302-A CHEMICAL PROCESS UNIT OPERATOR

Co-ordinates operation of continuous systems units that convert chemical substances into specified industrial or consumer products according to knowledge of operating procedures and chemical reaction, laboratory test results and correlation of instrumentation data.

Reads plant specifications to ascertain product ingredients and any prescribed modification of plant procedures. Regulates flow of liquids and gases through equipment in specified timing or sequence, or starts automatic feed of solid or semi-solid materials through equipment, such as heating vessels and mixing tanks. Observes gauges, signals and recording instruments. Turns valves and moves controls to regulate temperatures, pressures and flow of steam, coolant and chemical constituents through system to reflect prescribed reaction, within critical limits. Patrols area to inspect equipment for leaks and other hazards. Listens for abnormal sounds. Performs minor repairs and records gauge readings. Draws samples at prescribed stages of synthesis and performs routine tests to determine if reaction is conforming to plant standards. Maintains log of gauge readings, shift production and equipment malfunctions. Analyses test results, laboratory analysis and instrument readings to facilitate regulation of process and production of standardised product.

May demonstrate correct work methods to trainees. May control equipment such as stripping, wash or recovery towers, neutralisers, condensers, heat exchangers and reflux systems to remove or recover solvents or other specific chemicals. May be designated according to type of system operated, e.g.

Absorption Operator	Acidising Operator
Esterification Operator	Fermentation Operator
Halogenation Operator	Ion Exchange Operator
Neutralisation Operator	Nitration Operator
Oxidation Operator	Thermal Cracking Operator
Purification and Reaction Operator	
Hydrolysis and Hydration Operator	

#### Job Content Factors

##### Workers

FP: GE10y	IP: E3y
HC: RC	RQ: D1 V1 A1

##### Materials

SM: D2 P2 T1	EQ: S1 M1
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##### Functions

MA: A1 P2 D2 R3 M3 L2	
PA: P1 U1 H2 S2 W2 E3	SA: S2 L2 B2 R3-4

##### Context

EC: L1 C02,08,09	TC: A1 I2 R2
SS: 4	SC: 5 (5 y)

LMS: NA (1%SE)

ASIC: 27

### 6302-B PILOT PLANT OPERATOR (CHEMICALS)

Performs routine testing and processing duties in a chemical pilot plant.

Operates pilot plant equipment. Adds reagents and catalysts to solutions as directed. Patrols equipment and draws samples at specified processing stages. Carries out standardised tests as required. Reads charts and gauges, and compiles process operational data.

May control processing equipment such as coagulators and dryers by regulating temperatures, pressures, rates of flow and liquid levels. May clean and maintain equipment.

#### Job Content Factors

##### Workers

FP: GE10y	IP: E3y
HC: RC	RQ: D1 V1 A1

##### Materials

SM: D2 P2 T1	EQ: S2 M1
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##### Functions

MA: A2 P2 D3 R3 M3 L4	
PA: U2 H1 S2 W1 E3	SA: S2 L2

##### Context

EC: L1 C02,08,09	TC: A1 I2 R2
SS: 6	SC: 6 (5 y)

LMS: NA (1%SE)

ASIC: 27

### 6302-C CHEMICAL PROCESS OPERATOR, BATCHING

Controls one or more chemical processing units or interrelated semi-automatic systems such as dryers, grinders, precipitators, reactors, vacuum blenders or mixing vessels in a single or multi-step batching process that converts substances into industrial or consumer products.

Reads plant specifications to ascertain product ingredients and prescribed modifications of basic plant procedures. Charges vessels with specified quantities of solids or liquids, and turns valves to feed liquid or gaseous materials into units, or sets controls in specific sequence on panelboard to start automatic feed. Adjusts valves or moves controls to maintain specified temperature, pressure and vacuum levels. Monitors gauges, signals and recorders, and observes colour changes in product to ascertain rate of reaction. Performs simple physical or chemical tests on products during processing, to ensure conformity with specifications, using standard test equipment and procedures. Collects and identifies samples of product by standard methods for detailed laboratory analysis. Receives notification from control laboratory, supervisor or other workers to make specified operating adjustments required to control or complete chemical processes. Maintains log of operating conditions for correlation of chemical processes and shift production.

May use catalysts, accelerators and short stops to advance, retard and control time, rate and extent of reaction.

#### Job Content Factors

##### Workers

FP: GE10y	IP: E3y
HC: RC	RQ: D1 V1 A1

##### Materials

SM: D2 P2 T1	EQ: S1 M1
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##### Functions

MA: A1 P2 D2 R3 M3 L2	
PA: P1 U1 H2 S2 W2 E3	SA: S2 L2 B2 R3-4

##### Context

EC: L1 C02,08,09	TC: A1 I2 R2
SS: 4	SC: 5 (10y)

LMS: NA (1%SE)

ASIC: 27

### 6302-D MIXER (CHEMICALS)

Tends mixing machines, agitator tanks, kettles, mills and ancillary equipment to blend solid and liquid ingredients to make chemical products such as inks, paints, lacquers, binders, cosmetics, deodorants, toothpaste, adhesives, coating agents and polishes, according to formula, performing any combination of the following duties.

Sets dials of pump meters to admit specified amounts of liquids, such as oils, solvents and water into mixing machine. Weighs dry ingredients, such as colour concentrates, gums, and resins, as indicated on batch ticket, into mixer by hand, or using chain hoist. Starts agitator that mixes ingredients for specified time. Operates jar mill or ball mill to mix and grind ingredients. Monitors instruments and adjusts controls to regulate speed and temperature of machine during mixing operation as necessary. Draws samples from batch for laboratory tests, and adds ingredients to mixture as indicated by laboratory analyses. Transfers raw material from storage to process area. Cleans equipment.

May be designated according to product mixed, e.g.  
 Batch Mixer                      Coating Solution Mixer  
 Colour Mixer                      Fertiliser Mixer  
 Glass Enamel Mixer              Ink Maker  
 Lacquer Blender                  Paint Maker  
 Pesticide Mixer                  Plastics Mixer  
 Shellac Mixer                      Tanning Solution Preparer  
 Seasoning Mixer (Chemicals)  
 Toothpaste Blending Machine Operator

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V1 A1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 M1
<i>Functions</i>	
MA: A1 P2 D2 R3 M3 L2	
PA: P1 U1 H2 S2 W2 E3	SA: S2 L2 B2 R3-4
<i>Context</i>	
EC: L1 C02,08,09	TC: A1 I2 R2
SS: 4	SC: 5 (5 y)
LMS: NA ( 1%SE)	ASIC: 27

### 6302-E COMPOUNDER (CHEMICALS)

Tends tanks and compounding kettles that mix and blend flavours, perfumery solutions, colour solutions, essential oils and aromatic synthetics for use in manufacture of soaps, perfumes, cosmetics and other toilet preparations.

Weighs or measures specified types and quantities of liquid ingredients according to formula, using scale tank or graduated scale. Measures powdered ingredients. Drains solution from scale tank through filter unit to remove foreign particles. Dumps powdered chemicals and pumps solution into compounding kettle or observes thermostat and adjusts valves to heat solution as specified. Pumps solution into agitator tank that blends it for specified time, and through filter unit for further purification. Observes solution for colour, or draws samples at various stages for laboratory analysis. Evaluates product by smelling. Cleans pumps, filters, tanks, piping and barrels. Records and submits stock and production reports.

May tend mill to grind or blend ingredients.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V2
<i>Materials</i>	
SM: D2 T1	EQ: S1 M2 K2 W1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 U1 C2 H1 W1 E4	SA: S1 L2
<i>Context</i>	
EC: L1 C02,09,06	TC: A1 I2 R1
SS: 4	SC: 5 (10y)
LMS: NA ( 1%SE)	ASIC: 27

### 6302-F SOLUTIONS PLANT OPERATOR

Tends equipment that mixes chemicals and other ingredients in batch lots, to produce solutions for coating, impregnating or processing plastic or other materials.

Measures and weighs specified quantities of ingredients such as sulphur, acid, resins, plasticisers and dyes, according to formula. Dumps ingredients into mixing machine or drum. Lowers agitator into vat or drum, using manual or electric chain hoists. Starts agitator to mix ingredients. Draws sample of mixture for laboratory analysis, after mixing for specified time. Adds ingredients as required, until batch meets specifications. Turns valves to discharge solution through strainer to storage container, or removes agitator and transfers drum to storage area.

May prepare and attach batch ticket to drum, listing date, type of mixture, quantity and other data. May replace strainers.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V2
<i>Materials</i>	
SM: D2 T1	EQ: P1 M1 W1
<i>Functions</i>	
MA: P2 D3 R3 M3 L3	
PA: P1 U2 H1 S2 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C02,08,09	TC: A1 I2 R2
SS: 5	SC: 6 (10y)
LMS: NA ( 1%SE)	ASIC: 27

### 6302-G DISTILLATION OPERATOR (CHEMICALS)

Controls stills and related equipment required to fractionate liquids having close volatilisation points according to process specifications.

Reads process sheet to determine types and quantities of materials to be distilled, specified sequence of operations, and control setting required to attain specified distillates. Starts pumps and turns valves to admit liquids into stills. Monitors temperature and pressure gauges, and moves controls to specified settings to attain volatilisation rate consistent with operational procedures. Moves controls to maintain operating equilibrium in condensers and related equipment. Sets reflux rate for recycling maximum portion of distillate through system. Obtains samples of product for laboratory analysis or performs tests, using standard procedures and test equipment. Transfers distillates to receiving tanks, according to product colour or correlation of data from laboratory tests. Maintains shift log of operational data and equipment performance.

May be designated according to type of process or material processed, e.g.

Benzol Still Operator  
 Continuous Still Operator  
 Mercaptans Unit Operator  
 Synthetic Textiles Still Operator

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V2
<i>Materials</i>	
SM: D2 T1	EQ: M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 H2 E2	SA: L1
<i>Context</i>	
EC: L1 C01,08,09	TC: A1 I2 R1
SS: 5	SC: 6 (5 y)
LMS: NA ( 1%SE)	ASIC: 27

### 6302-H BATCH STILL OPERATOR (CHEMICALS)

Operates batch stills to separate liquids having divergent volatilisation temperatures.

Turns valves and starts pumps to charge stills with liquids to desired level. Regulates controls on instrument panel to maintain specified temperatures and pressures throughout distillation cycle and to control condensation of products. Obtains samples of distillate for laboratory analysis or performs titration tests, using standard procedure and equipment. Observes colour of distillate to determine when process is completed. Records operating data, such as weight, yield of products, gauge readings and number of batches processed.

May operate distillation equipment to obtain essential oils and similar products, or operate hydrogen fluoride stills and related equipment to produce aluminium fluoride, and be designated accordingly, e.g.

Essential Oil Distiller

Hydrogen Fluoride Still Operator

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V2
<i>Materials</i>	
SM: D2 T1	EQ: S2 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C02,08,09	TC: A1 I2 R2
SS: 4	SC: 5 (10y)
LMS: NA (1%SE)	ASIC: 27

**6302-I FILTER PRESS OPERATOR (CHEMICALS)**  
Filter Press Man/Woman (Chemicals)

Operates filter presses that remove sediment, impurities and insoluble materials from chemical liquid concentrations and compounds.

Covers filter plates with filtering medium, such as cloth, canvas or paper. Closes press, causing plates to come together, forming seal. Dumps filtering aids, such as diatomaceous earth or sawdust, into mixing tank with liquid to be filtered, and starts agitator. Pumps liquid through presses. Stops pumps when specified pressure is indicated on gauges or when filtering cycle is completed. Examines filtrate, and draws samples for laboratory analysis. Cleans filtered impurities from frames, screens and filters. Opens filter press, dislodges solid materials from between frames and replaces filtering medium.

May tend closed system press. May be designated according to type of press operated or by product filtered, e.g.

Pigment Filterer	Plate and Frame Operator
Precipitate Filterer	Resin Filterer
Salt Filterer	Sludge Filterer
Varnish Filterer	

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V2
<i>Materials</i>	
SM: D2 T1	EQ: S1 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C02,08,09	TC: A1 I2 R2
SS: 5	SC: 5 (5 y)
LMS: NA (1%SE)	ASIC: 27

**6302-J VACUUM PAN OPERATOR (CHEMICALS)**

Controls triple effect evaporator system and vacuum filter equipment to concentrate slurry, grow crystals and separate crystals from slurry.

Turns valves and operates switches to start equipment that admits steam, cooling water and raw materials into evaporators. Starts rotating vacuum filter, turbine, and heating equipment that operates within specified limits. Observes levels through sight glasses to ensure evaporation effect and vacuum pressures are maintained. Obtains slurry samples and performs titration tests. Compares test results with standards and adjusts evaporators to obtain desired crystallisation growth. Starts pumps to remove slurry from evaporators and to spray slurry over vacuum filter screen. Monitors vacuum filter equipment and adjusts scraper blade that removes salt crystals for final processing. Flushes out evaporators to remove scale and salt residue and examines steam tubes and inside walls of evaporators to detect equipment deterioration. Maintains shift logbook of production data and equipment performance.

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V2
<i>Materials</i>	
SM: D2 T1	EQ: M1
<i>Functions</i>	
MA: P2 D3 R4 M3 L3	
PA: U1 H1 S2 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C02,08,09	TC: A1 I2 R2
SS: 4	SC: 5 (10y)
LMS: NA (1%SE)	ASIC: 27

**6302-K MAKE-UP PLANT OPERATOR (CHEMICALS)**

Controls equipment to produce ingredients such as polymerisation emulsions, solutions and stabilisers used in the production of materials such as synthetic rubber.

Pumps liquid chemicals to metering or weighing tanks. Moves heater controls to attain specified temperature in system. Starts agitator and opens valves to regulate and admit chemical agents into mixing tanks in prescribed sequence. Directs other workers to dump preweighed amounts of solid materials into tanks. Regulates flow of rubber constituents to storage or to rubber synthesis work areas, according to production needs. Observes precautions to maintain safety standards. Maintains records of materials used and shift production, process times, temperature and gauge readings. Receives and stores materials.

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V2
<i>Materials</i>	
SM: D2 T1	EQ: M1
<i>Functions</i>	
MA: A2 P2 D3 R4 M3 L3	
PA: U1 W1 E3	SA: S2 L2 B2 R3-4
<i>Context</i>	
EC: L1 C02,08,09	TC: A1 I2 R2
SS: 5	SC: 5 (10y)
LMS: NA (1%SE)	ASIC: 27

**6302-L CHLORINATION PLANT OPERATOR (CHEMICALS)**

Controls operation of equipment in which chemicals or other materials are chlorinated by reaction with chlorine gas.

Loads chlorinator with specified amounts of chemicals or other materials by operating equipment, such as pumps or conveyors. Turns valves and reads flowmeter to regulate flow of chlorine and rate of chlorine reaction. Reads temperature gauges and adjusts steam and coolant valves to maintain chemical reaction within specified temperature range. Tests sample of chemical product for specific gravity, boiling or

freezing point and to determine when chlorination is completed. Maintains record of shift production and other data, such as chlorinator temperature and pressure.

May operate related equipment such as vaporiser, filters, stills and stripping columns.

#### Job Content Factors

<b>Workers</b>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V2
<b>Materials</b>	
SM: D2 T1	EQ: M1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E3	SA: S2 L2
<b>Context</b>	
EC: L1 C02,08,09	TC: A1 I2 R2
SS: 6	SC: 6 (10y)
LMS: NA ( 1%SE)	ASIC: 27

### 6302-M ACID PLANT OPERATOR Absorption Operator, Acid Plant

Controls equipment that absorbs gases and liquids into water or other solvents to produce acids.

Operates pumps, turns valves and observes flowmeters to control concentration, flow, temperature and quantity of coolant, gas, liquid, and absorbing liquor through cooling and absorbing towers. Turns valves to regulate feed rate of solution produced and steam pressure to purge boilers and condensers to separate impurities and obtain product of designated strength and specific gravity. Obtains sample from tank and tests for specific gravity and acidity or forwards sample to laboratory for analysis. Turns valves to admit solution to storage tanks or tank cars. Maintains log of instrument readings, test results and production.

May prepare equipment for repair by draining tanks and lines, and locking out pumps and motors.

#### Job Content Factors

<b>Workers</b>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V2
<b>Materials</b>	
SM: D2 T1	EQ: P1 M1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: P1 U1 H1 W1 E3	SA: S2 L2
<b>Context</b>	
EC: L1 C02,08,09	TC: A1 I2 R2
SS: 4	SC: 4 (2 y)
LMS: NA ( 1%SE)	ASIC: 27

### 6302-N RECOVERY PLANT OPERATOR

Controls evaporators, furnaces and dissolving tanks to recover compounds from spent chemical solutions.

Turns valves and starts pumps to admit spent chemicals into recovery unit. Adjusts temperature, pressure and associated controls on evaporator and furnace according to system specifications. Patrols recovery area to observe recording devices and indicators on panelboards, flow of chemicals through unit, and level of solvent in tanks. Monitors evaporator operation for conformity with specifications of solid content of evaporated liquor. Maintains shift log of production data, gauge readings, test results and equipment performance.

May tend electrostatic precipitator on furnace exhaust system that recovers dust particles for recycling through furnace. May clean solidified smelt from furnace intake ports or transfer troughs or spouts.

#### Job Content Factors

<b>Workers</b>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V2
<b>Materials</b>	
SM: D2 T1	EQ: M1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: U1 H2 W1 E3	SA: S2 L2
<b>Context</b>	
EC: L1 C02,08,09	TC: A1 I2 R2
SS: 3	SC: 4 (10y)
LMS: NA ( 1%SE)	ASIC: 27

### 6302-O KETTLE OPERATOR (CHEMICALS)

Operates mixing kettles or tanks to mix and process ingredients according to formula to make adhesives, glues, pastes and similar products.

Measures or weighs specified amounts of ingredients. Turns valves to admit water or steam to kettle or tank, steam coil or jacket, to heat compounds. Starts agitator or mixing paddles, and dumps or pours ingredients into kettle or tank in prescribed order. Mixes and cooks compound for specified time and adjusts steam valves to regulate temperature. Turns valve to drain kettle or tank and transfer product to shipping containers, drums, storage tanks or packaging machines. Cleans kettle and equipment. Draws test samples and delivers them to laboratory for analysis. Adds ingredients to bring mixture to specifications.

#### Job Content Factors

<b>Workers</b>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V2
<b>Materials</b>	
SM: D2 T1	EQ: P1 M1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: P2 U1 H1 W1 E3	SA: S2 L2
<b>Context</b>	
EC: L1 C02,08,09	TC: A1 I2 R2
SS: 3	SC: 4 (5 y)
LMS: NA ( 1%SE)	ASIC: 27

### 6302-P CALENDER OPERATOR

Operates machine, singly or as member of crew, to imprint or form rubber or plastic sheeting or rubberised fabric.

Turns steam valves to regulate heat of rolls, judging heat by progress of material. Turns handwheels to adjust distance between rolls. Verifies thickness of calendered material, using gauges. Inserts pieces of rubber between rolls to feed machine, or positions conveyor feeder in front of rolls that carry strip of rubber from warmer mill for continuous feeding. Threads fabric or sheeting around and between rollers, through water coolant tanks and onto pickup reel core or takeoff conveyor. Adjusts knives that trim salvage, or cuts material to specified width by moving knives along bar and turning setscrews. Adjusts weights on arms of holders so that knives will press against rolls and cut through thickness of material processed. Observes calendered material for defects such as bubbles, lumps, streaks and pitting, indicating faulty stock.

May direct other workers who feed stock to machine, change takeup reels, remove and inspect stamped parts, and place them in books, boards and frames.

#### Related Occupations

- Occupation 6222-D : Coating Machine Operator (Papermaking)
- Occupation 6222-E : Supercalender Operator
- Unit Group 6312 : Plant Operators, Plastics Products

**Job Content Factors****Workers**

FP: GE10y

IP: E3y

HC: RC

RQ: D1 V1

**Materials**

SM: D2 T1

EQ: P1 M1

**Functions**

MA: D3 R4 M3 L3

PA: U1 H2 W1 E3

SA: L1 B2 R4

**Context**

EC: L1 C09

SS: 3

TC: A1 I2 R1

SC: 4 (5 y)

LMS: NA ( 0%SE)

ASIC: 27

**6302-Z****PLANT OPERATORS, GENERAL  
CHEMICAL PROCESSING nec**

This residual group covers plant operators concerned with producing and processing a wide range of chemicals not elsewhere classified in Unit Group 6302, e.g.

Mould Maker

**6303 ASSISTANTS, GENERAL CHEMICAL PROCESSING AND TESTING**

This unit group covers occupations concerned with assisting other workers in the production, processing and testing of a range of chemical products.

**Entry Requirements** Year 10 plus, in some cases, 6 months' experience.

**Activities include** assisting other workers in the operation of chemical plant and in the sampling and testing of chemical substances and products.

**6303-A ASSISTANT, INSPECTING AND  
TESTING (CHEMICALS)**

Performs routine testing duties on chemical products under the direct supervision of a testing technician or inspector.

As directed, carries out routine physical, chemical or non-destructive testing duties on a range of chemical products and processes.

May specialise in assisting in a particular testing activity or in testing a particular range of chemical products, and be designated accordingly, e.g.

Chemical Testing Assistant

Non-Destructive Testing Assistant

Physical Testing Assistant

Assistant, Pharmaceuticals and Toiletries Inspecting

**Job Content Factors****Workers**

FP: GE10y

IP: T2-6m E6m

HC: RC

RQ: D1 V1

**Materials**

SM: P2 T1

EQ: S1 M1

**Functions**

MA: D3 R4 M3 L3

PA: U1 W1 E3

SA: S2 L2

**Context**

EC: L1 C02,08,09

TC: A1 I2 R2

SS: 4

SC: 5 (10y)

LMS: NA ( 1%SE)

ASIC: 27

**6303-B ASSISTANT PLANT OPERATOR,  
GENERAL CHEMICAL PROCESSING  
Assistant Chemical Process Unit Operator**

As directed, assists operator of chemical plant in the

performance of his/her duties, gaining experience with different types of plant.

May specialise in assisting in the operation of one particular chemical plant and be designated accordingly, e.g.

Assistant Acid Plant Operator

Assistant Batch Still Operator (Chemicals)

Assistant Chemical Process Operator, Batching

Assistant Chlorination Plant Operator (Chemicals)

Assistant Compounder (Chemicals)

Assistant Distillation Operator (Chemicals)

Assistant Filter Press Operator (Chemicals)

Assistant Kettle Operator (Chemicals)

Assistant Make-up Plant Operator (Chemicals)

Assistant Mixer (Chemicals)

Assistant Pilot Plant Operator (Chemicals)

Assistant Recovery Plant Operator

Assistant Solutions Plant Operator

Assistant Vacuum Pan Operator (Chemicals)

**Job Content Factors****Workers**

FP: GE10y

IP: T2-6m

HC: RC

RQ: D1 V1

**Materials**

SM: P2 T1

EQ: S1 M1

**Functions**

MA: D3 R4 M3 L3

PA: U1 W1 E3

SA: S2 L2

**Context**

EC: L1 C02,08,09

TC: A1 I2 R2

SS: 4

SC: 5 (5 y)

LMS: NA ( 1%SE)

ASIC: 27

## MINOR GROUP 631 PLASTICS PRODUCTION OCCUPATIONS

Plastics Production Occupations are classified in the following unit groups.

- 6310 Foremen/women, Plastics Production Occupations
- 6311 Machine Setting Occupations, Plastics Products
- 6312 Plant Operators, Plastics Products
- 6313 Process Workers, Plastics Products
- 6319 Other Plastics Production Occupations

### 6310 FOREMEN/WOMEN, PLASTICS PRODUCTION OCCUPATIONS

This unit group covers supervisory occupations concerned with the manufacture of plastic products.

**Entry Requirements** a basic vocational or para-professional certificate in an appropriate area and/or 3-5 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### 6310-A FOREMAN/WOMAN, PLASTICS PRODUCTION OCCUPATIONS

Supervises and co-ordinates activities of workers engaged in setting and operating equipment and other activities concerned with the manufacture of plastic products.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May specialise in supervising a particular activity concerned with the fabrication of plastic products or with a particular type of plastic product, and be designated accordingly, e.g.

- Foreman/woman, Blow Moulding (Plastics)
- Foreman/woman, Injection/Compression/Transfer Moulding (Plastics)
- Foreman/woman, Extruding (Plastics)
- Foreman/woman, Rotational Moulding (Plastics)
- Foreman/woman, Thermoforming (Plastics)

- Foreman/woman, Cellular Plastics
- Foreman/woman, Fibre Reinforced (Plastics)
- Foreman/woman, Sheet Fabrication (Plastics)

#### *Job Content Factors*

##### *Workers*

FP: GE10y PSP1-3y(PPC) / (B)	IP: E5y
or FP: GE10y	IP: T3-6m E3-5y
HC: RCE	RQ: D1 V1

##### *Materials*

SM: D2 P2 T1	EQ: P2 S2 M2
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##### *Functions*

MA: A2 P1 D2 R2 M3 L2	
PA: P2 U2 H2 S2 W1 E3	SA: L1 B1 R3-4

##### *Context*

EC: L1 C,09	TC: A1 I2 T2
SS: 7	SC: 7 (5y)

LMS: NA (1%SE)

ASI C: 27

### 6311 MACHINE SETTING OCCUPATIONS, PLASTICS PRODUCTS

This unit group covers occupations concerned with the setting up, adjustment and maintenance of machines used in the fabrication, assembly and repair of plastic products.

**Entry Requirements** Year 9 and up to 2 years' experience.

**Activities include** installing dies and sizing rings; regulating vacuum, pressure and temperature controls; and checking the finished product for conformance to standards.

### 6311-A EXTRUDING MACHINE SETTER (PLASTICS) Die Setter (Plastics)

Sets up and adjusts extruding machines used to extrude plastic material into rod, sheet or tubular form.

Installs dies and sizing rings in extruding machine, using hand tools. Couples air, steam or water hoses to machine and die-head connections. Regulates vacuum, pressure and temperature controls to specified levels and starts machine by turning switches. Synchronises speed of emerging extrusion with take-up reel or conveyor by turning knob. Examines extruded product for defects, such as wrinkles, bubbles and splits. Measures extruded material for conformance to specified dimensions, using gauges and callipers. Takes corrective action if outside specified dimensions.

#### Job Content Factors

<b>Workers</b>	
FP: GE9y	IP: T6m E1y
HC: RIC	RQ: D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: P1 S1 M1
<b>Functions</b>	
MA: P2 D2 R3 M3 L2	
PA: P2 U2 W1 E3	SA: L1
<b>Context</b>	
EC: L1 C09	TC: A1 I2
SS: 5	SC: 6 (3 y)
LMS: NA (0 %SE)	ASIC: 347

### 6311-B INJECTION/COMPRESSION/TRANSFER MOULDING MACHINE SETTER

Sets up and adjusts compression/injection/transfer moulding machines, used to mould plastic products.

Positions assembled mould on press bed of moulding machine, or bolts matrix of unassembled mould to bed, aligns die attached to ram with matrix, and adjusts stroke of ram, using hand tools. Connects steam, oil and water lines to mould, or adjusts controls to regulate temperature. Sets machine controls to regulate temperature, forming pressure of machine and cooling time of plastic in mould, using gauges and hand tools. Starts machine to produce sample products. Examines sample for surface defects, such as bubbles, warping and scratching, and adjusts machine to eliminate defects. Positions assembled mould or split mould onto the platens of the moulding machine, and secures mould to platens using bolts or bolts and clamps. Aligns moving parts of mould with fixed parts of mould, and adjusts stroke of ram using hand tools.

#### Job Content Factors

<b>Workers</b>	
FP: GE9y	IP: T18m E2y
HC: RIC	RQ: D1 V1
<b>Materials</b>	
SM: D2 T2	EQ: P1 S1 M1
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: P1 U2 W1 E3	SA: L1
<b>Context</b>	
EC: L1 C09	TC: A1 I2
SS: 5	SC: 6 (3 y)
LMS: NA (0 %SE)	ASIC: 347

### 6311-C BLOW MOULDING MACHINE SETTER

Sets up and adjusts blow moulding machines used to mould plastic products.

Adjusts machine controls such as heating, cooling and electrical timers to optimise the moulding conditions applicable to the product being manufactured. Adjusts extrusion tooling to optimise material distribution in the product. Fixes dies and pins to machine. Sets up moulds.

#### Job Content Factors

<b>Workers</b>	
FP: GE9y	IP: T4y
HC: RIC	RQ: D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: P1 S1 M1
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: P1 U2 W1 E3	SA: L1
<b>Context</b>	
EC: L1 C09	TC: A1 I2
SS: 5	SC: 6 (3 y)
LMS: NA (0 %SE)	ASIC: 347 &

### 6311-D CELLULAR PLASTICS MACHINE SETTER

Sets up and adjusts machines used for making foam blocks and foam products.

In manufacture of foam blocks: sets pressure of atomiser; checks heat exchanger connections; adjusts flow of components to the mixing head and ensures correct flow of foam mixture onto conveyor belt or box; also services conversion area where foam blocks are cut into specified shapes. In manufacture of moulded foam products: assembles mould using hand tools; connects component feed lines; undertakes, or directs machine operator to undertake, a trial run; checks finished product for conformance to standards; adjusts equipment, cure time etc. if necessary.

May specialise in the setting of machines for specific materials, and be designated accordingly, e.g.

Machine Setter, Flexible Foam  
Machine Setter, Rigid Foam

#### Job Content Factors

<b>Workers</b>	
FP: GE9y	IP: T3-6m E2y
HC: RI	RQ: D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: P1 S1 M1
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: P1 U2 W1 E3	SA: L1 B2 R4
<b>Context</b>	
EC: L1 C09	TC: A1 I2
SS: 5	SC: 6 (3 y)
LMS: NA (0 %SE)	ASIC: 347

### 6311-E THERMOFORMING MACHINE SETTER

Sets up and adjusts thermoforming machines used to mould plastic products.

Positions mould in machine. Connects air lines to mould to provide air pressure or vacuum. Adjusts controls to regulate temperature of plastic sheet, forming pressure of machine, air pressure or vacuum, and cure time of plastic in mould. Starts machine to produce sample product. Examines sample for surface defects such as bubbles and warping, and adjusts machine to eliminate defects.

#### Job Content Factors

<b>Workers</b>	
FP: GE9y	IP: T3-6m E2y
HC: RJE	RQ: D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: P1 S2 M1
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: P1 U2 W1 E3	SA: L1
<b>Context</b>	
EC: L1 C09	TC: A1 I2
SS: 5	SC: 6 (3 y)
LMS: NA (0 %SE)	ASIC: 347

### 6311-F ROTATIONAL MOULDING MACHINE SETTER

Sets up and adjusts rotational moulding machines used to mould plastic products such as tanks and drums.

Studies customer specifications, blue prints etc. Assembles mould using hand tools. Discusses time and temperature requirements for the moulding process with foreman/woman and machine operator. Checks gas-jet settings. Undertakes, or directs machine operator to undertake, a trial run of the moulding process which includes: placing plastic pellets in mould; starting machine to rotate mould; and cooling mould after predetermined time with water sprinkler and fan. Checks finished product for conformance to standards and customer requirements. Records time and temperature specification etc. on job card for machine operator.

#### Job Content Factors

##### Workers

FP: GE9y

IP: T18-24m E2y

HC: RIC

RQ: D1 V1

##### Materials

SM: D2 P2 T1

EQ: P1 S1 M1

##### Functions

MA: P2 D2 R3 M3 L2

PA: P1 U2 H1 W1 E3

SA: L1 B2 R4

##### Context

EC: L1 C09

TC: A1 I2

SS: 5

SC: 6 (3 y)

LMS: NA (0 %SE)

ASIC: 347

### 6311-Z MACHINE SETTING OCCUPATIONS, PLASTICS PRODUCTS nec

This residual group covers occupations concerned with the setting up, adjustment and maintenance of machines used in the fabrication, assembly and repair of plastic products, not elsewhere classified in Unit Group 6311.

## 6312 PLANT OPERATORS, PLASTICS PRODUCTS

This unit group covers occupations concerned with the operation of machines used in the fabrication, assembly and repair of plastic products.

**Entry Requirements** Year 9-10.

**Activities include** measuring and mixing ingredients; starting and watching the various machines for the production of a wide range of plastic products or the various stages of plastic materials; and reporting malfunctions to the appropriate machine setter.

### 6312-A PLASTICS BLENDING MACHINE OPERATOR

Blending Machine Operator, Plastics

Operates mixing machine to prepare plastic powder or liquid blends of specified consistency or quality.

Ascertains ingredient and mixing requirements. Measures out prescribed quantities of ingredients into machine by hand or mechanical ram, or regulates flow from feed conveyors, hoppers or pipes, and starts up machine when necessary. Mixes ingredients for specified time or until required consistency or quality has been obtained. Adds chemical additives to mixture when specified. Monitors instruments and adjusts controls to regulate speed and temperature of machine during mixing operation as necessary. Carries out prescribed checks and/or withdraws sample for laboratory testing. Removes blended material by hand, or discharges to storage container or to machine for further processing. Cleans or directs cleaning of machine. Maintains production records.

May specialise in the operation of machines for specific purposes and products, and be designated accordingly, e.g.

Banbury Mixer Operator

#### Job Content Factors

##### Workers

FP: GE9y

IP: T6-12m

HC: RIC

RQ: D1 V1

##### Materials

SM: D2 P2 T1

EQ: S1 N1 M1

##### Functions

MA: P2 D2 R3 M3 L2

PA: P1 U1 H1 W1 E3

SA: L1 B2 R4

##### Context

EC: L1 C01,08,09

TC: A1 I2

SS: 3

SC: 4 (5 y)

LMS: NA (0 %SE)

ASIC: 347

### 6312-B EXTRUDING MACHINE OPERATOR (PLASTICS)

Extruder Operator (Plastics)

Operates extruding machine used to extrude plastic material into rod, sheet or tubular form.

Starts machine and watches operation to check that supply of raw material is maintained and that finished products are extruded properly. Checks finished products for defects. Notifies extruding machine setter of malfunction of machine or defective products. Maintains production records.

May cut extrusions to desired lengths. May unload finished reels of film. May be designated,

Thin Film Extruding Machine Operator

#### Job Content Factors

##### Workers

FP: GE10y

IP: T1y

HC: RC

RQ: D1 V1

##### Materials

SM: D2 T1

EQ: M1

##### Functions

MA: D3 R4 M3 L3

PA: U1 W1 E3

SA: L1

##### Context

EC: L1 C09

TC: A1 I2 R1

SS: 5

SC: 5 (5 y)

LMS: NA (1 %SE)

ASIC: 347

### 6312-C INJECTION/COMPRESSION/ TRANSFER MOULDING MACHINE OPERATOR

Operates injection/compression/transfer moulding machines to produce plastic products.

Starts machine and watches operation to check that supply of raw material is maintained and that finished products are ejected properly. Checks finished products for defects. Notifies injection/compression/transfer moulding machine setter of malfunction of machine or defective products. Maintains production records.

May de-flash mouldings. May perform separating and regrinding duties. May collate and stack finished product. May remove flash, runners and strues. May apply mould release agent to surface of mould.

#### Job Content Factors

<b>Workers</b>	
FP: GE10y	IP: T3m
HC: RC	RQ: D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: M1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: P1 U1 H2 W1 E3	SA: S2 L1
<b>Context</b>	
EC: L1 C09	TC: A1 I2 R1
SS: 5	SC: 6 (3 y)
LMS: NA (1%SE)	ASIC: 347

### 6312-D BLOW MOULDING MACHINE OPERATOR

Operates blow moulding machine to produce plastic products.

Starts machine and watches operation to check that supply of raw material is maintained and that finished products are ejected properly. Checks finished products for defects. Notifies blow moulding machine setter of malfunction of machine or defective products. Maintains production records.

May de-flash moulding. May pack mouldings. May remove flash. May pack parts. May attach labels.

#### Job Content Factors

<b>Workers</b>	
FP: GE10y	IP: T3m
HC: RC	RQ: D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: M1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E3	SA: L1
<b>Context</b>	
EC: L1 C09	TC: A1 I2 R1
SS: 5	SC: 3 (3 y)
LMS: NA (1%SE)	ASIC: 347

### 6312-E CELLULAR PLASTICS MACHINE OPERATOR

Operates machines used for making foam blocks and moulded foam products.

In process of making foam blocks: assists machine setter to prepare machine for operation; watches operation to check that supply of raw material is maintained and that mixture flows correctly onto conveyor belt or box; and checks that paper lining feeds correctly. In process of making moulded foam products: watches feed lines to ensure correct amount of raw material is placed in the mould; closes mould; opens mould and removes product after predetermined curing time; and checks products for surface defects.

May apply mould release agent to surface of mould. May stack finished product. May specialise in the operation of machines for specific materials and be designated accordingly, e.g.

Machine Operator, Flexible Foam  
Machine Operator, Rigid Foam

#### Job Content Factors

<b>Workers</b>	
FP: GE9y	IP: T3m
HC: RIC	RQ: D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: M1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E3	SA: L1
<b>Context</b>	
EC: L1 C09	TC: A1 I2 R1
SS: 3	SC: 4 (5 y)
LMS: NA (0 %SE)	ASIC: 347

### 6312-F THERMOFORMING MACHINE OPERATOR

Operates thermoforming machine to produce plastic products.

Starts machine and watches operation to check that supply of raw material is maintained and that finished products are ejected properly. Checks finished products for defects. Notifies thermoforming machine setter of malfunction of machine or defective products. Maintains production records.

May make minor adjustments to machine. May stack finished product. May specialise in the operation of machines for specific processes and be designated accordingly, e.g.

Vacuum Forming Machine Operator  
Pressure Forming Machine Operator

#### Job Content Factors

<b>Workers</b>	
FP: GE9y	IP: T6m
HC: RIC	RQ: D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: S2 M1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: U1 W1 E3	SA: L1
<b>Context</b>	
EC: L1 C09	TC: A1 I2 R1
SS: 3	SC: 4 (5 y)
LMS: NA (0 %SE)	ASIC: 347

### 6312-G ROTATIONAL MOULDING MACHINE OPERATOR

Operates rotational moulding machines to produce plastic products such as drums and tanks.

Assists foreman/woman and machine setter in estimating time and temperature requirements for the moulding process, drawing on previous experience. Places plastic pellets in mould. Closes mould and starts machine which rotates mould. After predetermined time, cools mould using water sprinkler and fan. Opens mould and removes product. Checks product for defects such as cracks, blemishes etc. Informs machine setter of any defects. Maintains production record.

May stack finished product.

#### Job Content Factors

<b>Workers</b>	
FP: GE9y	IP: T3-6m
HC: RIC	RQ: D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: M1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E3	SA: L1

*Context*

EC: L1 C09  
SS: 3

TC: A1 I2 R1  
SC: 4 (5 y)

LMS: NA (0 %SE)

ASIC: 347

**6312-H PLASTICS SHEET PRESS OPERATOR**

Operates hydraulic press to emboss, laminate or draw plastic sheets.

Starts gas oven and sets thermostat to regulate oven temperature. Clamps sheet to overhead rack and pushes rack into oven to soften sheet. Bolts die or plates to bed of press and adjusts length of travel of ram arm, using hand tools. Positions softened sheet or layers of sheets on press bed and lowers pressure plate to hold sheets in place. Moves controls to lower ram that draws sheet through open die to specified shape, embosses sheet with specified design, or compresses layers of sheets to form laminated plastic board. Turns valves to regulate flow of water or steam through dies or plates to maintain forming temperature. Trims plastic, using shears, power saw or knife.

May operate vacuum machine to mould plastic products.

*Job Content Factors**Workers*

FP: GE9y  
HC: RIC

IP: T6-12m  
RQ: D1 V1

*Materials*

SM: D2 T1

EQ: P1 S1 M1

*Functions*

MA: D3 R4 M3 L3

PA: U1 W1 E3

SA: L1

*Context*

EC: L1 C09  
SS: 3

TC: A1 I2 R1  
SC: 4 (5 y)

LMS: NA (0 %SE)

ASIC: 347

**6312-Z PLANT OPERATORS, PLASTICS PRODUCTS nec**

This residual group covers occupations concerned with the operation of machines used in the fabrication, assembly and repair of plastic products, not elsewhere classified in Unit Group 6312.

**6313 PROCESS WORKERS, PLASTICS PRODUCTS**

This unit group covers occupations concerned with routine processes in the fabrication, assembly and repair of plastic products.

**Entry Requirements** Year 9.

**Activities include** moving raw materials from store-rooms; maintaining and spraying moulds; building up fibreglass and resin layers on moulds; and cutting foam products.

**6313-A POWDER HAND (PLASTICS)**

Supplies correct mix of plastics, regrind and colourant for use in making plastic products.

Takes prescribed quantities of raw material from store-room to moulding machine by hand or trolley etc. Dumps material into hopper of machine. Adds colourant. Starts mixer. Stops runs and discharges contents after pre-set time. Delivers mix to machine and fills hopper.

May remove scrap and flash from moulding machines for processing.

*Job Content Factors**Workers*

FP: GE9y  
HC: RIC

IP: T3m  
RQ: D1 V1

*Materials*

SM: D2 T1

EQ: M1 W1

*Functions*

MA: D3 R4 M3 L3

PA: U1 H1 W1 E3

SA: L1

*Context*

EC: L1 C09  
SS: 3

TC: A1 I2 R1  
SC: 4 (5 y)

LMS: NA (0 %SE)

ASIC: 347

**6313-B CELLULAR PLASTICS CUTTER**

Cuts foam products of specified size and shape from foam blocks.

Places block of foam on cutting table and pushes foam through vertical band knife using a template as a guide, and/or tends slitting machine which cuts blocks of foam using hot wires.

May specialise in cutting a particular type of foam, and be designated accordingly, e.g.

Cutter, Flexible Foam

Cutter, Rigid Foam

*Job Content Factors**Workers*

FP: GE9y  
HC: RIC

IP: T1m  
RQ: D1 V1

*Materials*

SM: D2 T1

EQ: P1 M1

*Functions*

MA: D3 R4 M3 L3

PA: U1 H1 W1 E3

SA: L1

*Context*

EC: L1 C09  
SS: 3

TC: A1 I2 R1  
SC: 4 (5 y)

LMS: NA (0 %SE)

ASIC: 347

**6313-C MOULD HAND (PLASTICS)**

Prepares, polishes and maintains moulds used for making fibre reinforced plastic products.

Fills cracks, depressions or holes in mould surface with plastic and smooths surface using sand paper. Cleans mould with water or cleansing solution, and waxes and polishes surface using sponge and cloth. Brushes or sprays parting agent on mould to facilitate removal of moulded product.

**Job Content Factors**

<b>Workers</b>	
FP: GE9y	IP: T2-6w
HC: RIC	RQ: D1 V1
<b>Materials</b>	
SM: T1	EQ: S1 N1
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 H2 W1 E2	SA: L1
<b>Context</b>	
EC: L1 C08,09	TC: A1 I2 R1
SS: 3	SC: 4 (5 y)
LMS: NA (0 %SE)	ASIC: 347

**6313-D GUN HAND (PLASTICS)**

Sprays moulds with gelcoat to produce finished surface for fibre reinforced plastic products prior to laminating.

Inspects equipment prior to use. Selects appropriate gelcoat and batch number. Checks temperature and adjusts catalyst level accordingly. Calculates flow of gelcoat. Sprays a trial panel and adjusts spray pattern etc. if necessary. Sprays mould, one section at a time, keeping the gun perpendicular to the mould surface. Cleans equipment immediately after use.

**Job Content Factors**

<b>Workers</b>	
FP: GE9y	IP: T2m
HC: RIC	RQ: D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: P1 S1 M1
<b>Functions</b>	
MA: D2 R3 M3 L3	
PA: U1 W1 E3	SA: L1
<b>Context</b>	
EC: L1 C08,06	TC: A1 I2 R1
SS: 3	SC: 4 (5 y)
LMS: NA (0 %SE)	ASIC: 347

**6313-E HAND LAMINATOR**

Builds up layers of fibreglass and resin on moulds to make fibre reinforced plastic products.

Cuts fibreglass mat to size. Adds catalyst to resin and mixes. Applies coat of resin mix with brush and lays on fibreglass mat. Wets fibreglass mat with resin and rolls with metal roller to remove air. Cleans brush and roller in acetone. Repeats above procedure as many times as required to build up to specified thickness.

May smooth rough edges, using files, grinders and sanders. May assemble lay-ups or casts to produce complete reproduction and be designated accordingly, e.g.

Lay-up Hand

**Job Content Factors**

<b>Workers</b>	
FP: GE9y	IP: T2-6w
HC: RIC	RQ: D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: P2 S1 W1
<b>Functions</b>	
MA: D2 R3 M3 L3	
PA: U1 H2 W1 E3	SA: L1
<b>Context</b>	
EC: L1 C08,09	TC: A1 I2 R1
SS: 3	SC: 4 (5 y)
LMS: NA (0 %SE)	ASIC: 347

**6313-Z PROCESS WORKERS, PLASTICS PRODUCTS nec**

This residual group covers occupations concerned with routine processes in the fabrication, assembly and repair of plastic products, not elsewhere classified in Unit Group 6313.

**6319 OTHER PLASTICS PRODUCTION OCCUPATIONS**

This residual unit group covers occupations concerned with the fabrication, assembly and repair of plastic products, not elsewhere classified in Minor Group 631.

**Activities include** inspecting finished plastic products for appearance and conformance to specifications; and fabricating products from plastic sheet.

**6319-A EXAMINER, PLASTICS PRODUCTS**

Inspects finished plastic products for appearance and conformance to specifications.

Checks products for faults such as blisters, cracks and contamination. Ensures conformity with dimensional standards using measuring tools such as ruler, callipers, micrometer etc. Writes report on all substandard products.

**Job Content Factors**

<b>Workers</b>	
FP: GE9y	IP: T2m E5y
HC: RIC	RQ: Q2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P1 S1
<b>Functions</b>	
MA: P2 D2 R2 M2 L2	
PA: P1 U2 W1 E3	SA: L1

<b>Context</b>	
EC: L1	TC: A1 I2 T1
SS: 5	SC: 6 (3 y)
LMS: NA (0 %SE)	ASIC: 347

**6319-B PLASTICS SHEET FABRICATOR**

Fabricates products such as signs, windows, boat windshields and aircraft parts from plastic sheet, by performing any combination of the following duties.

Lays out pattern on plastic sheet according to specification, using templates, rule, compass and marking pencil. Cuts part from sheet, using router or power saw. Softens plastic part in oven and shapes heated part to specifications, using form, air mould, press or jig. Cuts, drills, slots, trims or shapes parts using router, milling machine, power saw, power drill, shaper or lathe. Fits and assembles parts in jigs, using clamps, clips, bolts, screws, rivets, glue and hand tools. Sands and polishes

part or assembly, using rouge, portable sander and buffing machine. Verifies dimensions, using rule, callipers and gauges. Examines article for defects.

*Job Content Factors*

*Workers*

FP: GE11y

IP: T1-2y

HC: RIC

RQ: D1 V1

*Materials*

S.M: D2 T1

EQ: P1 S1 N1 M1

*Functions*

MA: P2 D2 R3 M2 L2

PA: P1 U1 C2 H1 W1 E3

SA: L1

*Context*

EC: L1 C01,09

TC: A1 I2 R2

SS: 4

SC: 6 (3 y)

LMS: NA (0 %SE)

ASIC: 347

**6319-Z**

**PLASTICS PRODUCTION  
OCCUPATIONS nec**

This residual group covers occupations concerned with the fabrication, assembly and repair of plastic products, not elsewhere classified in Unit Group 6319.

## MINOR GROUP 632 RUBBER PRODUCTION OCCUPATIONS

Rubber Production Occupations are classified in the following unit groups.

- 6320 Foremen/women, Rubber Production Occupations
- 6321 Tyre Production Occupations
- 6322 Rubber Products Occupations (Except Tyres)

### 6320 FOREMEN/WOMEN, RUBBER PRODUCTION OCCUPATIONS

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in the fabrication, assembly and repair of rubber products.

**Entry Requirements** a basic vocational/trade/para-professional qualification plus 3-5 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### 6320-A FOREMAN/WOMAN, RUBBER PRODUCTION OCCUPATIONS

Supervises and co-ordinates activities of workers involved in the manufacture of rubber products including the production of components and the building, curing and finishing of tyres and tubes.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May specialise in supervising the production of tyres and tubes, and be designated accordingly, e.g.

Foreman/woman, Rubber Tyres and Tubes

#### *Job Content Factors*

##### *Workers*

<b>FP:</b> GE10y PSP1-3y(PPC) / (B)	<b>IP:</b> E5y
<b>or FP:</b> GE10-11y PSP4y(T)	<b>IP:</b> E3-5y
<b>HC:</b> REC	<b>RQ:</b> D1 V1 A2

##### *Materials*

<b>SM:</b> D2 P2 T1	<b>EQ:</b> P2 S2 M2
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##### *Functions*

<b>MA:</b> I2 A2 P1 D2 R3 M2 L2	
<b>PA:</b> P2 U2 S2 W2 E3	<b>SA:</b> S2 L2 I2 B1 R2-4

##### *Context*

<b>EC:</b> L1 C02,06,09	<b>TC:</b> A1 I2 T2
<b>SS:</b> 7	<b>SC:</b> 7 (5 y)

**LMS:** NA ( 1%SE)

**ASIC:** 346

### 6321 TYRE PRODUCTION OCCUPATIONS

This unit group covers occupations concerned with the production of tyres.

**Entry Requirements** Year 9-11 plus 6-12 months' experience.

**Activities include** building raw tyres on a rotating drum machine; making tyre beads; and processing used tyres for retreading and vulcanising.

#### 6321-A TYRE BUILDER

Builds raw tyres on a rotating drum machine.

Wraps rubber sheets onto drum, cuts to length and joins edges to lay the inside of the tyre. Places tyre beads in position on drum and turns in ply ends during building.

Successively wraps on layers of different plies, belts and rubber as specified to produce a particular first stage tyre. Controls rollers which remove air from between layers and maintain uniform thickness. Removes from builder. Inspects

first stage tyres to determine size, type and quality. Places on tread rubber and smooths to produce second stage raw tyre. Stacks on mobile rack and controls movement to storage area.

May specialise in a particular stage of the process or in a particular type of tyre and be designated accordingly, e.g.

Tyre Builder, First Stage      Tyre Builder, Second Stage  
Tyre Builder, Aircraft      Tyre Builder, Solid  
Tyre Builder, Truck

#### Job Content Factors

##### Workers

FP: GE10-11y      IP: T4-6m E6-12m  
HC: RC      RQ: V1

##### Materials

SM: D2 T1      EQ: S1 M1 W2

##### Functions

MA: P2 D3 R3 M3 L3

PA: P1 U2 C1 H2 W1 E3      SA: S1 B2 R4

##### Context

EC: L1 C09,06,02      TC: A1 I1 R1  
SS: 4      SC: 5 (5 y)

LMS: NA (1%SE)

ASIC: 346

### 6321-B TYRE RETREADER

Processes used tyres for retreading and vulcanising.

Inspects used tyre casing for defects. Uses buffing machine to remove old tread rubber, roughen surface and produce uniform shape and radius. Builds new tread by spraying with cement and fitting tread rubber to casing. Places tyre in

vulcaniser press, fits correct size and pattern moulds, and controls curing process. Removes and inspects cured tyre, and trims and finishes as required.

May perform tyre and tube repairing, fitting and balancing.

#### Job Content Factors

##### Workers

FP: GE9-10y      IP: T3-4m E1y  
HC: R      RQ: D1 V1

##### Materials

SM: D2 T1      EQ: S1 M1

##### Functions

MA: A2 D2 R3 M3 L3

PA: P2 U1 C1 H2 W1 E3      SA: S1 L2

##### Context

EC: L1 C09,02,01      TC: A1 I1 R2  
SS: 4      SC: 5 (5 y)

LMS: NA (1%SE)

ASIC: 346

### 6321-Z TYRE PRODUCTION OCCUPATIONS nec

This residual group covers occupations involving manual and other tasks in the production of tyres, not elsewhere classified in Unit Group 6321, e.g.

Bias Ply Joiner      Creel Operator  
Flipper Operator      Rubber Reclaimer  
Spray Booth Operator      Tyre-Bead Winder/Former  
Tyre Curing Operator      Tyre Finisher/Examiner  
Tyre Finishing Operator  
Tyre Uniformity Machine Operator  
Tyre X-Ray Machine Operator

## 6322 RUBBER PRODUCTS OCCUPATIONS (EXCEPT TYRES)

This unit group covers occupations concerned with the production of rubber products (except tyres).

**Entry Requirements** Year 9-10 and up to one year's experience in some cases.

**Activities include** tending machines used to reinforce rubber hose; building printers' rolls from rubber ply; and installing rubber sheeting to the interior of a variety of cylindrical products.

### 6322-A KNITTING MACHINE OPERATOR, RUBBER PRODUCTS

Tends machine that knits and cements fabric cord or wire around rubber hose for reinforcement.

Mounts specified spools of cord or wire in let-off rack. Changes pitch gears as required. Threads hose and cord or wire into knitting machine. Adjusts machine controls to maintain uniform tension on cord or wire stock. Observes operation for defects. Ties broken cords. Coils hose in box.

#### Job Content Factors

##### Workers

FP: GE NFR      IP: T3m  
HC: R      RQ: V1

##### Materials

SM: T1      EQ: P2 S1 M1

##### Functions

MA: D2 R3 L3

PA: P2 U1 H1 W1 E3      SA: S2 L1

##### Context

EC: L1 C09,02      TC: A1 I2 R2  
SS: 3      SC: 4 (5 y)

LMS: NA (0 %SE)

ASIC: 346

### 6322-B ROLL BUILDER

Builds up rubber piles on metal cores for use as printers' rolls.

Positions metal core in building machine by hand or using hoist and applies rubber cement with brush. Pulls ply of rubber from roll in rack onto work table. Measures and cuts ply to specified length with scissors. Vacuum cleans rubber ply to ensure removal of dust and lint. Starts machine to revolve core. Wraps specified number of plies around core and splices ends. Compresses rubber and removes wrinkles and trapped air, using automatic machine rollers and hand roller. Cuts roll to length with knife. Weighs roll to ensure that specified thickness of finished roll covering is attained. Wraps finished roll with strips of cloth preparatory to curing.

#### Job Content Factors

##### Workers

FP: GE9-10y      IP: T3m E6m  
HC: R1      RQ: D2 V1

##### Materials

SM: D2 T1      EQ: S2 M1

##### Functions

MA: D2 R3 M3 L3

PA: P2 U1 C1 H2 W1 E4      SA: S2 L1

*Context*

EC: L1 C09,02,06  
SS: 4

TC: A1 I2  
SC: 6 (3 y)

LMS: NA (0 %SE)

ASIC: 346

**6322-C ROLLER GRINDER OPERATOR**

Sets up and operates roller grinder to produce rubber rollers.

Loads roller on machine using hoist or by hand and sets up to run true. Adjusts and sets lathe for specified diameter of roll. Selects appropriate grinding wheel for finish required. Reads and works from working drawings. Checks diameter with a pair of callipers or micrometer or measuring tape. Unloads roller. Maintains production records.

May form cross-grooving on roller.

*Job Content Factors**Workers*

FP: GE9y IP: T6m  
HC: RIC RQ: D1 V1

*Materials*

SM: D2 T1 EQ: P2 S1 M1

*Functions*

MA: A2 D3 R4 M3 L3  
PA: P1 U2 C1 H2 W1 E3 SA: S2 L1

*Context*

EC: L1 C09 TC: A1 I2  
SS: 3 SC: 4 (5 y)

LMS: NA (0 %SE)

ASIC: 346

**6322-D TANK LINER**

Installs rubber sheeting applied to interior of tanks, valves, pipes, ducts, cells and similar articles to prevent corrosion and to minimise contamination or explosion hazards to contents.

Prepares article for application of lining by sandblasting, scraping or painting interior surfaces. Marks out pattern for rubber lining on heavy paper from blue prints, and sketches

and cuts it out with scissors. Places pattern on specified rubber sheeting and cuts around it, using knife or scissors. Coats surfaces to be lined with required type of rubber cement. Bends rubber lining to surfaces, using special tools. Steam cures rubber lining in autoclave or by using steam hose and hood. Tests installed rubber linings for conformance to specifications, using spark tester.

May repair rubber linings by cutting out damaged or worn areas and cementing in self-curing rubber patches. May visit equipment sites to install or repair rubber linings.

*Job Content Factors**Workers*

FP: GE10y IP: T4m E1y  
HC: RIS RQ: U2 D1 V1

*Materials*

SM: D2 P2 T1 EQ: P2 S1 M1 V2

*Functions*

MA: A2 P2 D2 R3 M3 L3  
PA: P1 U1 C2 H1 W1 E3 SA: S1

*Context*

EC: L4 C09,01,07 TC: A1 I2  
SS: 3 SC: 4 (5 y)

LMS: NA (0 %SE)

ASIC: 346

**6322-Z RUBBER PRODUCTS OCCUPATIONS (EXCEPT TYRES) nec**

This residual group covers occupations concerned with producing a variety of rubber products (except tyres) not elsewhere classified in Unit Group 6322, e.g.

Examiner, Rubber Products Poling Operator (Rubber)  
Rubber Extruder Operator Rubber Millworker  
Rubber Table Hand Rubber Trimmer  
Lead Stripping Machine Operator (Rubber)  
Press Moulding Machine Operator  
Rubber Stripping-Lathe Operator

## MINOR GROUP 633

### PHARMACEUTICALS AND TOILETRIES PRODUCTION OCCUPATIONS

Pharmaceuticals and Toiletries Production Occupations are classified in the following unit groups.

6330	Foremen/women, Pharmaceuticals and Toiletries Production Occupations
6331	Plant Operators, Pharmaceuticals and Toiletries Products
6332	Process Workers, Pharmaceuticals and Toiletries Products
6333	Assistant Plant Operators, Pharmaceuticals and Toiletries Products

#### 6330 FOREMEN/WOMEN, PHARMACEUTICALS AND TOILETRIES PRODUCTION OCCUPATIONS

This unit group covers supervisory occupations concerned with the production of pharmaceuticals and toiletries.

**Entry Requirements** a para-professional certificate in pharmaceutical and cosmetic technology or a related area plus 5 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### 6330-A FOREMAN/WOMAN, PHARMACEUTICALS PRODUCTION OCCUPATIONS

Supervises and co-ordinates activities of workers concerned with the production of pharmaceuticals.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

##### *Job Content Factors*

##### *Workers*

FP: GE10-11y PSP2-3y(PPC)	IP: E5y
HC: RCE	RQ: Q2 D1 V1

##### *Materials*

SM: D2 P1 T2	EQ: P2 S2 M2
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##### *Functions*

MA: A2 P1 D2 R3 M3 L2	
PA: P2 U2 H2 W2 E3	SA: S2 L2 B1 R3-4

##### *Context*

EC: L1 C02,08,09	TC: A1 I2 R2
SS: 7	SC: 7 (10y)

LMS: NA ( 1%SE)

ASIC: 27

#### 6330-B FOREMAN/WOMAN, TOILETRIES PRODUCTION OCCUPATIONS

Supervises and co-ordinates activities of workers concerned with the production of toiletries.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

##### *Job Content Factors*

##### *Workers*

FP: GE10-11y PSP2-3y(PPC)	IP: E5y
HC: REC	RQ: Q2 D1 V1

##### *Materials*

SM: D2 P1 T2	EQ: P2 S2 M2
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##### *Functions*

MA: A2 P1 D2 R3 M3 L2	
PA: P2 U2 H2 W2 E3	SA: S2 L2 B1 R3-4

##### *Context*

EC: L1 C02,08,09	TC: A1 I2 R2
SS: 7	SC: 7 (10y)

LMS: NA ( 1%SE)

ASIC: 27

### 6331 PLANT OPERATORS, PHARMACEUTICALS AND TOILETRIES PRODUCTS

This unit group covers occupations concerned with the operation of plant in the production of pharmaceuticals and toiletries.

**Entry Requirements** Year 10 plus 3 years' experience and, in some cases, a basic vocational or para-professional certificate in an appropriate area.

**Activities include** operating plant such as water stills, mixers, clarifiers, filtering units, autoclaves, fermenting tanks, and granulator and tableting machines to produce pharmaceuticals and toiletries products, including sterile medications; operating plant used to make and coat tablets; and operating plant to fill and seal ampoules with sterile products.

#### 6331-A PHARMACEUTICAL OPERATOR

Controls equipment and tends machines to produce a variety of pharmaceutical and toilet products or ingredients, performing any combination of the following duties.

Weights and measures ingredients. Starts or stops various machines. Operates mixing machine and heated kettles to prepare specified ingredients for ointments, creams, pastes, liquid medications, powders, gums and similar drug products, adding ingredients according to formulas. Operates milling and grinding machines or uses mortar and pestle to reduce materials to designated sized particles. Prepares products for compressing into tablets. Operates filter presses, sifting machines, water stills and related equipment to prepare ingredients for further processing. Inspects, weighs, and tests hardness of tablets according to specifications. Cleans and sterilises pumps, filters, pipes and mixing machines.

##### Job Content Factors

###### Workers

FP: GE10y  
HC: RC

IP: E3y  
RQ: D1 V1

###### Materials

SM: D2 P2 T1

EQ: P1 S2 M1

###### Functions

MA: D2 R3 M3 L2  
PA: P1 U2 W1 E3

SA: S2 L2 B2 R4

###### Context

EC: L1 C02,08,09  
SS: 6

TC: A1 I2 R2  
SC: 6 (5 y)

LMS: NA (1%SE)

ASIC: 27

#### 6331-B STERILE PRODUCTS PROCESSER

Operates water still, mixer, clarifier and filtering unit to process liquid and powder ingredients into sterile medications.

Admits de-ionised water and steam to still, and circulates water through condenser for distillation. Pours metered or measured amount of distilled water into container, weighs out or dumps pre-weighed ingredients into water and lowers mixing head into solution to dissolve and mix ingredients. Tests acidity of mixture. Adds acid or alkali as required to achieve prescribed acidity. Pours mixture into clarifier unit to remove insoluble material. Connects sterile filter to clarifier and turns valve to filter mixture under pressure.

##### Job Content Factors

###### Workers

FP: GE10-11y PSP2y(PPC)  
HC: RC

IP: E3y  
RQ: D1 V1

###### Materials

SM: D2 P2 T1

EQ: P1 S2 M1

##### Functions

MA: D2 R3 M3 L2

PA: P1 U2 H1 W1 E3

SA: S2 L2 B2 R4

##### Context

EC: L1 C02,08,09

SS: 6

TC: A1 I2 R2

SC: 6 (5 y)

LMS: NA (1%SE)

ASIC: 27

#### 6331-C FERMENTER, ANTIBIOTICS

Operates fermenting tanks and auxiliary equipment to produce active constituents of antibiotic drug products.

Starts agitator in fermenting and mixing tanks, and adds prescribed quantities of ingredients. Adjusts pressure and temperature to conform to specifications. Starts pumps to transfer mixture to fermenting tank. Opens valves to admit water, liquid, seed antibiotic, and foam-preventing oil, according to critical specifications, and measures level of solution. Transfers mixture to crystallisation tank for further processing after specified period of time.

##### Job Content Factors

###### Workers

FP: GE10-11y PSP2y(PPC)  
HC: RC

IP: E3y  
RQ: D1 V1

###### Materials

SM: D2 P2 T1

EQ: M1

###### Functions

MA: D2 R3 M3 L2

PA: U2 H1 W1 E3

SA: S2 L2 B2 R4

###### Context

EC: L1 C02,08,09

SS: 6

TC: A1 I2 R2

SC: 6 (5 y)

LMS: NA (1%SE)

ASIC: 27

#### 6331-D AUTOCLAVE OPERATOR (CHEMICALS)

Operates autoclaves and auxiliary equipment to sterilise pharmaceutical products.

Reads production schedule to determine product, ingredients to be used, temperature, pressure and duration of process. Closes and seals autoclave head. Adjusts dials to regulate pressure and vent excessive pressure to atmosphere. Observes specified reaction time and turns valves to cool ingredients. Opens autoclave. Connects conveyor system, and starts blowers and fans to transfer material to storage bin. Keeps operation records. Performs minor maintenance duties, such as replacing gaskets, and dismantling and cleaning equipment.

ASIC: 27

### 6332 PROCESS WORKERS, PHARMACEUTICALS AND TOILETRIES PRODUCTS

This unit group covers basic processing occupations concerned with the production of pharmaceuticals and toiletries products.

**Entry Requirements** Year 10.

**Activities include** winding single or multiple lengths of suture material onto reel; and tending equipment to mould or compress prepared ingredients.

#### 6332-A SUTURE MAKER

Winds single or multiple lengths of suture material onto reel.

Pulls out holding flaps on reel, inserts end of strand under one flap, places reel on power driven wheel, and guides strand as wheel spins to wind specified lengths of suture material onto reel. Observes strands as they pass under inspection light to detect thin or weakened areas. Rejects lengths that do not conform to specifications. Cuts material from spool. Inserts wound reels into plastic envelopes for subsequent sterilisation.

##### Job Content Factors

###### Workers

FP: GE10y

IP: T2m

HC: RC

RQ: D1 V1

###### Materials

SM: D2 P2 T1

EQ: S1 V1

###### Functions

MA: D2 R3 M3 L2

PA: U1 H1 W1 E3

SA: S2 L2

###### Context

EC: L1 C09

TC: A1 I2 R2

SS: 3

SC: 4 (5y)

LMS: NA (1%SE)

ASIC: 27

#### 6332-B TOILETRIES MOULDER AND COMPRESSOR

Tends equipment to mould or compress prepared ingredients to form products such as lipsticks, deodoriser cakes or powder compact refills by either of the following methods.

In the manufacture of lipsticks and related products: fills heated kettle with cosmetic ingredients and adjusts control to heat contents to desired pouring temperature; places mould or rack loaded with lipstick cases under pouring spout of kettle; opens valve to release metered quantity of molten material into mould cavities or lipstick cases; sets mould or cases aside to cool and congeal lipsticks; and opens mould to release lipsticks. In the manufacture of powder compact refills and

related products: examines bulk cosmetic powder in tray and removes lumps; loads metal or plastic powder cake bases into indentations in mould board; spreads glue onto bases and scoops powder or crystals into them; tamps and levels powder in moulds, using scraper, to ensure even surface and texture of product; and loads mould board onto press bed. Presses powder into cakes or sticks by depressing buttons; removes mould board and dumps compressed products onto drying tray; and examines products and discards those showing obvious imperfections, such as cracks, bubbles or discoloured areas.

May glaze lipsticks by passing them through gas flame. May assemble lipsticks into retractable containers. May insert products into compacts or shipping cartons. May set up press by selecting and fitting specified dies.

##### Job Content Factors

###### Workers

FP: GE10y

IP: T2m

HC: RC

RQ: D1 V1

###### Materials

SM: D2 P2 T1

EQ: P2 S1 M2

###### Functions

MA: D2 R3 M3 L2

PA: P2 U1 H1 W1 E3

SA: S2 L2

###### Context

EC: L1 C09

TC: A1 I2 R2

SS: 4

SC: 5 (5y)

LMS: NA (1%SE)

ASIC: 27

#### 6332-Z PROCESS WORKERS, PHARMACEUTICALS AND TOILETRIES PRODUCTS nec

This residual group covers basic processing occupations concerned with the production of pharmaceuticals and toiletries not elsewhere classified in Unit Group 6332, e.g.

Sanitary Napkin Machine Tender

Bandages and Associated Products Operator

### 6333 ASSISTANT PLANT OPERATORS, PHARMACEUTICALS AND TOILETRIES PRODUCTS

This unit group covers occupations concerned with assisting plant operators in the production of pharmaceuticals and toiletries products.

**Entry Requirements** Year 10.

**Activities include** assisting other workers in the operation of plant involved in the processing and production of pharmaceuticals and toiletries.

### 6333-A ASSISTANT PLANT OPERATOR, PHARMACEUTICALS AND TOILETRIES PRODUCTS

As directed, assists plant operator in the production of pharmaceuticals and toiletries products, gaining experience on a variety of plant.

May specialise in assisting in the operation of a particular plant and be designated accordingly, e.g.

Assistant Ampoule Filler  
Assistant Autoclave Operator (Chemicals)  
Assistant Granulator Machine Operator  
Assistant Tablet Coating Machine Operator  
Assistant Tablet Making Machine Operator

#### Job Content Factors

##### Workers

FP: GE10y IP: T2-6m  
HC: RC RQ: D1 V1

##### Materials

SM: D2 T1 EQ: M1

##### Functions

MA: D3 R3 M3 L2  
PA: U1 H1 W1 E3 SA: S2 L2

##### Context

EC: L1 C09 TC: A1 I2 R2  
SS: 3 SC: 4 (5y)

LMS: NA (1%SE)

ASIC: 27

### 6333-B ASSISTANT STERILE PRODUCTS PROCESSER

As directed, assists 6331-B STERILE PRODUCTS PROCESSER in the performance of his/her duties.

#### Job Content Factors

##### Workers

FP: GE10y IP: T2-6m  
HC: RC RQ: D1 V1

##### Materials

SM: D2 T1 EQ: M1

##### Functions

MA: D3 R3 M3 L2  
PA: U1 H1 W1 E3 SA: S2 L2

##### Context

EC: L1 C09 TC: A1 I2 R2  
SS: 3 SC: 4 (5y)

LMS: NA (1%SE)

ASIC: 27

### 6333-C ASSISTANT FERMENTER, ANTIBIOTICS

As directed, assists 6331-C FERMENTER, ANTIBIOTICS in the performance of his/her duties.

#### Job Content Factors

##### Workers

FP: GE10y IP: T2-6m  
HC: RC RQ: D1 V1

##### Materials

SM: D2 T1 EQ: M1

##### Functions

MA: D3 R3 M3 L2  
PA: U1 H1 W1 E3 SA: S2 L2

##### Context

EC: L1 C09 TC: A1 I2 R2  
SS: 3 SC: 4 (5y)

LMS: NA (1%SE)

ASIC: 27

## MINOR GROUP 634 EXPLOSIVES PRODUCTION OCCUPATIONS

Explosives Production Occupations are classified in the following unit groups.

- 6340 Foremen/women, Explosives Production Occupations
- 6341 Plant Operators, Explosives Production
- 6342 Process Workers, Explosives Production
- 6343 Assistant Plant Operators, Explosives Production

### 6340 FOREMEN/WOMEN, EXPLOSIVES PRODUCTION OCCUPATIONS

This unit group covers supervisory occupations concerned with the production of explosives.

**Entry Requirements** a para-professional certificate or trade qualification in an appropriate area, plus 3-5 years' experience.

**Activities include** performing duties as described under SUPERVISOR/FOREMAN/WOMAN.

#### 6340-A FOREMAN/WOMAN, EXPLOSIVES PRODUCTION OCCUPATIONS

Supervises and co-ordinates activities of workers concerned with the production of explosives.

Performs duties as described under SUPERVISOR/FOREMAN/WOMAN.

##### *Job Content Factors*

##### *Workers*

FP: GE10-11y PSP2y(PPC)

or FP: GE10y PSP4y(T)

HC: REC

IP: E5y

IP: E3-5y

RQ: D1 V1

##### *Materials*

SM: D2 P1 T2

EQ: P2 S2 N2 M2

##### *Functions*

MA: A2 P1 D2 R3 M3 L2

PA: P2 U2 H2 S2 W1 E3

SA: S2 L2 B1 R3-4

##### *Context*

EC: L1 C13

TC: A1 I2 R2

SS: 7

SC: 8 (5y)

LMS: NA ( 1%SE)

ASIC: 27

### 6341 PLANT OPERATORS, EXPLOSIVES PRODUCTION

This unit group covers occupations concerned with operating plant in the production of explosives.

**Entry Requirements** Year 10 plus 3 years' experience.

**Activities include** operating plant to mix, blend and otherwise process chemicals to produce explosive substances such as nitrocellulose, gelignite and various types of propellant powders; operating plant to make fuses for explosives and pyrotechnics; and operating plant that groove, knurl, die-size and lubricate bullets.

#### 6341-A MIXER OPERATOR, EXPLOSIVES

Operates mixing machines and auxiliary equipment to produce explosives such as gelignite, smokeless powder or solid propellant rocket fuel.

Computes quantities of chemical agents according to formula. Dumps specified quantities into conveyor hopper of mixer. Starts pump to add liquid chemical agents, such as nitroglycerin, wetting agents, catalysts or solvents into machine. Sets controls to regulate temperature of coils in

mixer jacket according to gauge readings and product specifications. Starts mixer to blend ingredients for specified time, or until prescribed reaction occurs. Moves dump lever, or shovels materials into containers for storage, shipment or further processing.

May tend auxiliary equipment units, such as dissolving tanks, ovens or vibrating screens to prepare or further process materials. May operate machines to mix particular types of explosives and be designated accordingly, e.g.

Dry Explosive Mixer                      Wet Explosive Mixer

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P1 H1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C13	TC: A1 I2 R2
SS: 5	SC: 6 (4y)
LMS: NA ( 1%SE)	ASIC: 27

### 6341-B POWDER BLENDER, EXPLOSIVES

Operates equipment that blends various types of propellant powders, according to formula, for use in small arms ammunition.

Examines and verifies powder with identifying data on container and type of powder specified on work order. Pours powder from containers into partitioned hopper, and adjusts rate of flow from hopper compartments to mix and blend powder according to formula. Verifies accuracy of hopper adjustment by drawing powder sample from each hopper compartment, using stop watch to time flow, and weighing samples to calculate rate of flow, or by starting agitator that shakes powders into blending tube, separating blended powders according to size, and weighing each size. Readjusts hopper controls as indicated by rate of flow or sieve test until powder proportions match specifications.

May tend tumbling machine to blend ingredients. May charge rim fire cartridges with wet priming composition by hand. May blend particular substances concerned with the manufacture of explosives and be designated accordingly, e.g.

Propellant Blender

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S1 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P1 U1 H1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C13	TC: A1 I2 R2
SS: 5	SC: 6 (4y)
LMS: NA ( 1%SE)	ASIC: 27

### 6341-C NITROCELLULOSE MAKER Acidman/woman; Nitrator Tender; Nitroglycerin Neutraliser; Nitroglycerin Nitrator

Operates battery of nitrators in which purified cotton linters are treated with acid to produce nitrocellulose, and centrifugal wringers to remove excess acid.

Turns valve to transfer specified amount of acid mixture from acid measuring pot to nitrators, and starts nitrator agitators. Dumps pre-weighed charge of cotton linters into nitrators, submerges linters at once to prevent fire and closes cover. Opens valves and starts pumps after nitration cycle is

completed to transfer nitrocellulose into centrifugal wringer. Sets timer to indicate end of wringing cycle, adjusts controls to regulate speed of wringer, and opens valves to remove excess acid. Stops wringer as indicated by timer. Opens water valve to flush wringer basin and loosens nitrocellulose through aperture into containers, using rake or hoe. Turns valves to flush and clean wringer with acid and water. Inspects equipment for flaws or defects and keeps records on wringing schedules and acid mix.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P1 U1 H1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C13,09	TC: A1 I2 R2
SS: 5	SC: 6 (4y)
LMS: NA ( 1%SE)	ASIC: 27

### 6341-D FUSE MAKER

Operates machine to make fuses for explosives and pyrotechnics.

Screens black powder to desired texture. Scoops screened powder into machine feed hopper. Starts winding machine to spin strands of cotton yarn around black powder core to form fuses, and to wind fuses onto bobbins. Unloads bobbins from machine. Places bobbins in controlled-temperature room for specified time to dry and cure fuses. Unwinds cured fuses from bobbins and cuts fuses to required lengths.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 H1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C13,09	TC: A1 I2 R2
SS: 5	SC: 6 (4y)
LMS: NA ( 1%SE)	ASIC: 27

### 6341-E BULLET MAKER

Operates machines that groove, knurl, die-size and lubricate bullets for small arms ammunition.

Scoops bullets from supply box and deposits them on machine apron. Starts machine and manually inserts bullets into holes of moving feed dial. Observes operation to detect jamming and clears jammed bullets. Measures bullet samples to verify location and depth of grooves, and length and diameter of bullets, according to specifications, using fixed gauges. Examines bullets to ensure that grooves are filled with lubricant. Adjusts machine by turning stop nuts and set screws to produce acceptable bullets.

May operate machines which produce shot-gun cartridges and other similar devices.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: E3y
HC: RC	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 U1 H1	SA: S2 L2

## Context

EC: L1 C09,13  
SS: 5

TC: A1 I2 R2  
SC: 6 (4y)

LMS: NA ( 1%SE)

ASIC: 27

**6342 PROCESS WORKERS, EXPLOSIVES PRODUCTION**

This unit group covers basic processing occupations concerned with the production of explosives.

**Entry Requirements Year 10.**

**Activities include** inspecting, assembling, fabricating, testing, maintaining, loading and storing ammunition.

**6342-A MUNITIONS MAKER**

Assembles and loads shells, bombs, rockets, mines and similar ammunition by performing any combination of the following duties.

Weights and loads propellant charges into cartridge cases or cloth bags. Weighs and loads explosive charges into shells (projectiles), bombs, rockets, mines and grenades. Screws fuses into place. Places primers in cartridge cases and screws or crimps them in place. Assembles shells to cartridge cases, using assembling and crimping machine. Brushes band of adhesive sealing compound around point of shell or cartridge. Assembles bombs, rockets and mines, by joining together components, such as body, tail assembly, detonators and boosters. Assembles and ties together propellant charge bags. Verifies dimensions of assembled ammunition, using fixed gauges. Stamps or stencils identification on ammunition. Packs ammunition in cardboard or metal tubes, sleeves or containers.

May disassemble ammunition to replace defective components or to recover propellant charge. May be designated according to specific task performed, e.g.

Bomb Loader

Shell Assembler

**Job Content Factors****Workers**

FP: GE10y IP: T2-6m  
HC: RC RQ: D1 V1

**Materials**

SM: D2 T1 EQ: M1

**Functions**

MA: D3 R3 M3 L2  
PA: U1 H1 W1 E3 SA: S2 L2

**Context**

EC: L1 C09,13 TC: A1 I2 R2  
SS: 5 SC: 6 (4y)

LMS: NA ( 1%SE)

ASIC: 27

**6342-B MUNITIONS HAND**

Fabricates, inspects, tests, maintains and stores ammunition, such as bullets, bombs, shells, pyrotechnics, rockets and related component parts.

Tests and inspects material for functioning and serviceability, using precision gauges and test equipment. Disassembles, repairs and reassembles ammunition, using hand and power tools, material handling equipment, and following

manufacturers' specifications. Assembles and loads explosive and inert elements to prepare ammunition for use. Cleans, stores and maintains ammunition according to technical manuals. Checks temperature and humidity of storage rooms, using thermometers and hygrometers. Disposes of ammunition due to deterioration, exudation and expired shelf life, by burning, drowning or exploding, according to regulations.

**Job Content Factors****Workers**

FP: GE10y IP: T2-6m  
HC: RC RQ: D1 V1

**Materials**

SM: D2 T1 EQ: M1

**Functions**

MA: D3 R3 M3 L2  
PA: U1 H1 W1 E3 SA: S2 L2

**Context**

EC: L1 C09,13 TC: A1 I2 R2  
SS: 5 SC: 6 (4y)

LMS: NA ( 1%SE)

ASIC: 27

**6342-C MUNITIONS HANDLER**

Loads, unloads and stores ammunition components in magazine (explosives storehouse).

Transfers explosive material between magazines and production areas in special containers, such as wooden blocks and leather pouches. Secures cargoes in transfer containers, using blocks and stays. Supplies production workers with specified explosives, such as charge caps and powder. Observes and adheres to posted safety regulations when handling and storing explosives.

**Job Content Factors****Workers**

FP: GE10y IP: T1-2m  
HC: RC RQ: D1 V1

**Materials**

SM: D2 T1 EQ: M1

**Functions**

MA: D3 R3 M3 L2  
PA: U1 H1 W1 E3 SA: S2 L2

**Context**

EC: L1 C09,13 TC: A1 I2 R2  
SS: 5 SC: 6 (4y)

LMS: NA ( 1%SE)

ASIC: 27

### 6343 ASSISTANT PLANT OPERATORS, EXPLOSIVES PRODUCTION

This unit group covers occupations concerned with assisting plant operators in the production of explosives.

**Entry Requirements** Year 10.

**Activities include** assisting other workers in the operation of plant involved in the production of explosives.

#### 6343-A ASSISTANT PLANT OPERATOR, EXPLOSIVES PRODUCTION

As directed, assists plant operator concerned with the production of explosives in the performance of his/her duties, gaining experience on a variety of plant.

May specialise in the operation of a particular plant and be designated accordingly, e.g.

- Assistant Bullet Maker
- Assistant Fuse Maker
- Assistant Mixer Operator, Explosives
- Assistant Nitrocellulose Maker
- Assistant Powder Blender, Explosives

#### Job Content Factors

##### Workers

FP: GE10y

IP: T2-6m

HC: RC

RQ: D1 V1

##### Materials

SM: D2 T1

EQ: M1

##### Functions

MA: D3 R3 M3 L2

PA: U1 H1 W1 E3

SA: S2 L2

##### Context

EC: L1 C09,13

SS: 5

TC: A1 I2 R2

SC: 6 (3 y)

LMS: NA ( 1%SE)

ASIC: 27

## MINOR GROUP 635

### PETROLEUM PRODUCTS PROCESSING OCCUPATIONS

Petroleum Products Processing Occupations are classified in the following unit groups.

- 6350 Foremen/women, Petroleum Products Processing Occupations
- 6351 Plant Operators, Petroleum Products Processing
- 6352 Assistant Plant Operators, Petroleum Products Processing

#### 6350 FOREMEN/WOMEN, PETROLEUM PRODUCTS PROCESSING OCCUPATIONS

This unit group covers supervisory occupations concerned with the processing of petroleum products.

**Entry Requirements** a basic vocational/trade/para-professional qualification in an appropriate area plus 5 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN; ensuring the safety of all personnel working in or entering their particular areas; ensuring the safe and efficient operation of all plant and equipment; being responsible for the issuing of permits relating to vessels which have contained petroleum and its derivatives; preparing job descriptions and job instruction manuals relating to personnel being supervised; preparing descriptions of general operating procedures for inclusion in operating manuals; preparing detailed procedures for specific operations such as process unit start ups and shut downs, receipt of crude petroleum etc.; preparing instructions in an order book on a daily basis, setting variables such as unit feed rates, process variables, blending of basestock with gasoline, and loading of finished products aboard tankers; liaising with counterparts in maintenance department covering repairs, modifications etc. to plant and equipment; and liaising with counterparts in other departments such as engineering, oil accounts, personnel, safety etc.

#### 6350-A FOREMAN/WOMAN, PETROLEUM PROCESS UNIT OPERATIONS

Supervises and co-ordinates activities of workers engaged in operating and tending petroleum refinery equipment specifically designed to perform functions of changing the composition of crude oil and intermediate petroleum stocks to produce finished refined oil products.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN and in the definition for Unit Group 6350 FOREMEN/WOMEN, PETROLEUM PRODUCTS PROCESSING OCCUPATIONS. Supervises and co-ordinates activities of workers engaged in operating plant such as steam heaters, fired heaters, distillation columns, steam stripping columns, heat exchangers, condensers and coolers, filters and refrigeration systems to produce products such as liquid petroleum gas, gasoline, kerosene, jet fuel, heating oil, asphalts, various grades of diesel oil and fuel oils, waxes, solvents and heptene.

May specialise in supervising and co-ordinating activities of workers concerned with a particular process and be designated accordingly, e.g.

- Foreman/woman, Catalytic Reforming
- Foreman/woman, Cracking
- Foreman/woman, Decarbonisation
- Foreman/woman, Distillation (Petroleum Products)

Foreman/woman, Furfural Treating  
Foreman/woman, Hydro Treating  
Foreman/woman, Polymerisation and Alkylation  
Foreman/woman, Solvent Dewaxing

##### Job Content Factors

###### Workers

FP: GE10-11y PSP2-3y(PPC) / (B)	IP: E5y
or FP: GE10y PSP4y(T)	IP: E5y
HC: ERC	RQ: D1 V1 A2

###### Materials

SM: D2 I2 P2 T1	EQ: P2 S2 M2
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###### Functions

MA: I2 A2 P2 D2 R3 M2 L2	
PA: S2 W2 E3	SA: S2 L2 B1 R2-4

###### Context

EC: L1 C09,13	TC: A1 I1 T2
SS: 7	SC: 7 (5 y)

LMS: NA ( 1%SE)

ASIC: 27

#### 6350-B FOREMAN/WOMAN, BLENDING AND SHIPPING (CRUDE PETROLEUM)

Supervises and co-ordinates activities of workers engaged in the pumping, blending and shipping operations connected with the receipt of crude petroleum and the manufacture of finished petroleum products for distribution.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN and in the definition for Unit Group 6350 FOREMEN/WOMEN, PETROLEUM PRODUCTS PROCESSING OCCUPATIONS. Directs workers in the receipt of crude petroleum and other feed stocks into refinery tankage either by pipeline or ocean going oil tankers, and in the preparation of feed stock for charging to the various petroleum process units. As required, arranges for blending of basestocks in tankage to manufacture finished products such as gasoline and fuel oils. Ensures all finished refined products comply with the appropriate set of quality specifications before release for distribution. Arranges for the transfer of finished products to oil terminals either by ocean going oil tankers or pipeline.

May work in oil terminals, supervising activities of workers engaged in the loading of finished refined products from terminal tankage into rail tank cars or road tankers for delivery to points of consumption. May specialise in

supervising and co-ordinating the activities of workers engaged in the production of grease, and be designated accordingly,

Foreman/woman, Grease Manufacture

#### Job Content Factors

##### Workers

FP: GE10-11y PSP2-3y(PPC) / (B)	IP: E5y
or FP: GE10y PSP4y(T)	IP: E5y
HC: ERC	RQ: D1 V1 A2

##### Materials

SM: D2 I2 P2 T1	EQ: P2 S2 M2
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##### Functions

MA: I2 A2 P2 D2 R3 M2 L2	
PA: S2 W2 E3	SA: S2 L2 B1 R2-4

##### Context

EC: L1 C09,13	TC: A1 I1 T2
SS: 7	SC: 7 (5 y)

LMS: NA ( 1%SE)

ASIC: 27

### 6351 PLANT OPERATORS, PETROLEUM PRODUCTS PROCESSING

This unit group covers occupations concerned with operating plant in the production, blending, pumping and shipping of petroleum products.

**Entry Requirements** Year 10 or a trade qualification in an appropriate area, plus 2-6 years' experience.

**Activities include** patrolling and inspecting equipment to check on its safe and efficient operation; controlling continuous and/or batch processes to manufacture finished refined petroleum products to defined quality specifications; directing activities of other workers performing duties such as assisting in process control and maintaining log of production data; setting controls on control panels to adjust, co-ordinate and maintain process variables; moving controls to regulate valves, pumps and auxiliary equipment etc. so that process variables are altered to direct the flow of product and maintain it at a suitable quality level; reading and recording variables such as temperatures, flows etc.; determining malfunctioning units by observing control instruments such as flow meters, pressure gauges, temperature indicators or by automatic warning signals such as lights and horns; directing assistant in drawing of liquid samples for laboratory analyses and adjusting control variables, if required, depending on laboratory results; reporting defective equipment to maintenance crew and ensuring conditions are safe before repair action is undertaken; and directing other workers in the good housekeeping of the operating area by appropriate clean ups.

#### 6351-A PLANT OPERATOR, PETROLEUM PROCESS UNITS

Operates plant to manufacture finished refined petroleum products to defined quality specifications.

Performs duties as described in the definition for Unit Group 6351 PLANT OPERATORS, PETROLEUM PRODUCTS PROCESSING. Operates plant involved in any of the following processes: distillation, decarbonisation, cracking, polymerisation and alkylation, hydro treating, catalytic reforming, furfural treating and solvent dewaxing, and concerned with the conversion of crude petroleum and intermediate stocks to finished products such as liquid petroleum gas, gasoline, kerosene, jet fuel, heating oil, various grades of diesel oil and fuel oils, asphalts, waxes, solvents and heptene.

#### Job Content Factors

##### Workers

FP: GE10y PSP	IP: E3-6y
or FP: GE10y PSP4y(T)	IP: T2-6m E2y
HC: RCS	RQ: D1 V1 A2

##### Materials

SM: D2 P2 T1	EQ: P2 S2 M1
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##### Functions

MA: I2 D2 R3 M3 L2	
PA: P2 U2 S2 W2 E3	SA: S2 L2 B2 R4

##### Context

EC: L1 C06,13	TC: A1 I1 T2
SS: 7	SC: 7 (5 y)

LMS: NA ( 1%SE)

ASIC: 27

#### 6351-B PLANT OPERATOR, GREASE MANUFACTURE

Controls steam or electrically heated kettles in which ingredients such as melted fats, mineral oils and soda or lime bases are heated and mixed to produce various grades of lubricating grease according to required specifications.

Performs duties as described in the definition for Unit Group 6351 PLANT OPERATORS, PETROLEUM PRODUCTS PROCESSING. Sets valves, manifolds and pump controls etc. to transfer products to storage following heating and mixing process. Keeps records of product mixed, batch number and sample test results.

**Job Content Factors****Workers**

FP: GE10y PSP  
or FP: GE10y PSP4y(T)  
HC: RCS

IP: E3-6y  
IP: T2-6m E2y  
RQ: D1 V1 A2

**Materials**

SM: D2 P2 T1  
EQ: P2 S2 M1

**Functions**

MA: I2 D2 R3 M3 L2  
PA: P2 U2 S2 W2 E3  
SA: S2 L2 B2 R4

**Context**

EC: L1 C06,13  
SS: 7  
TC: A1 I1 T2  
SC: 7 (5 y)

LMS: NA ( 1%SE)

ASIC: 27

### 6351-C PLANT OPERATOR, PUMPING, BLENDING AND SHIPPING (PETROLEUM PRODUCTS)

Operates equipment to blend petroleum basestocks in the manufacture of finished commercial fuels (gasoline, fuel oils etc.), lubricating oils and asphalt to specific formulas, and to transfer stocks within refinery and finished products to terminals.

Performs duties as described in the definition for Unit Group 6351 PLANT OPERATORS, PETROLEUM PRODUCTS PROCESSING. Reads blending schedules to determine type and quality of stocks to be blended. Manipulates controls to start pumps for transfers of blend stocks to blend tanks. Sets control of pumps, agitators and mixers to blend mixtures mechanically. As required, observes temperature gauges and turns valves to adjust heating to regulate and maintain specific temperatures in tankers. Directs assistant to draw samples for laboratory analysis and adjusts mixture as required. As directed, operates controls to transfer stocks within refinery and finished products to terminals by pipeline or ocean going tanker. Liaises closely with the terminal operator and wharf operator controlling the loader of the tanker. Reads gauges on all petroleum tankage at regular intervals and records on data sheets. Makes regular inspections of all tankage, pumps, valves and lines etc., and

arranges with maintenance crew for repairs. Ensures equipment is made safe before any maintenance work is undertaken. Carries out clean up work and requests maintenance crew for assistance as required.

**Job Content Factors****Workers**

FP: GE10y PSP  
or FP: GE10y PSP4y(T)  
HC: RCS

IP: E3-6y  
IP: T2-6m E2y  
RQ: D1 V1 A2

**Materials**

SM: D2 P2 T1  
EQ: P2 S2 M1

**Functions**

MA: I2 D2 R3 M3 L2  
PA: P2 U2 S2 W2 E3  
SA: S2 L2 B2 R4

**Context**

EC: L1 C06,13  
SS: 6  
TC: A1 I1 T2  
SC: 7 (5 y)

LMS: NA ( 1%SE)

ASIC: 27

### 6351-D PLANT OPERATOR (OIL TERMINAL)

Operates valves to set line up from tankage to rail tankcars or road tanker, and operates pumps to make transfers of the product.

Liaises with refinery operator in receipt of product by pipeline from refinery, or liaises with tanker personnel if receiving product from oil tanker over oil wharf. Keeps records of all transfers to and from terminal. Operates computerised control panels for direct transfer of products from refinery through terminal to other oil terminals for more efficient distribution to consumers.

**Job Content Factors****Workers**

FP: GE10y PSP  
or FP: GE10y PSP4y(T)  
HC: RCS

IP: E3-6y  
IP: T2-6m E2y  
RQ: D1 V1 A2

**Materials**

SM: D2 P2 T1  
EQ: P2 S2 M1

**Functions**

MA: I2 D2 R3 M3 L2  
PA: P2 U2 S2 W2 E3  
SA: S2 L2 B2 R4

**Context**

EC: L1 C06,13  
SS: 6  
TC: A1 I1 T2  
SC: 6 (5 y)

LMS: NA ( 1%SE)

ASIC: 27

## 6352 ASSISTANT PLANT OPERATORS, PETROLEUM PRODUCTS PROCESSING

This unit group covers occupations concerned with assisting plant operators in the production, blending, pumping and shipping of petroleum products.

### Entry Requirements Year 10.

**Activities include** assisting other workers in the operation of plant concerned with changing the composition of crude oil and intermediate petroleum stocks to produce finished refined oil products, and with pumping, blending and shipping operations connected with the receipt of crude petroleum and the manufacture of finished petroleum products for distribution.

### 6352-A ASSISTANT PLANT OPERATOR, PETROLEUM PROCESS UNITS

As directed, assists 6351-A PLANT OPERATOR, PETROLEUM PROCESS UNITS in the performance of his/her duties.

**Job Content Factors****Workers**

FP: GE10y  
HC: RC

IP: T4-6m  
RQ: D1 V1

**Materials**

SM: D2 T1  
EQ: S2 M2

*Functions*

MA: D3 R4 M2 L3

PA: P2 U2 H1 S2 W2 E3

SA: S2 L2

*Context*

EC: L1 C09,13

TC: A1 I2 T2

SS: 4

SC: 5 (5y)

LMS: NA ( 1%SE)

ASIC: 27

**6352-B ASSISTANT PLANT OPERATOR,  
GREASE MANUFACTURE**

As directed, assists 6351-B PLANT OPERATOR, GREASE MANUFACTURE in the performance of his/her duties.

*Job Content Factors**Workers*

FP: GE10y

IP: T4-6m

HC: RC

RQ: D1 V1

*Materials*

SM: D2 T1

EQ: S2 M2

*Functions*

MA: D3 R4 M2 L3

PA: P2 U2 H1 S2 W2 E3

SA: S2 L2

*Context*

EC: L1 C09,13

TC: A1 I2 T2

SS: 4

SC: 5 (5y)

LMS: NA ( 1%SE)

ASIC: 27

**6352-C ASSISTANT PLANT OPERATOR,  
PUMPING, BLENDING AND SHIPPING  
(PETROLEUM PRODUCTS)**

As directed, assists 6351-C PLANT OPERATOR, PUMPING, BLENDING AND SHIPPING (PETROLEUM PRODUCTS) in the performance of his/her duties.

*Job Content Factors**Workers*

FP: GE10y

IP: T4-6m

HC: RC

RQ: D1 V1

*Materials*

SM: D2 T1

EQ: S2 M2

*Functions*

MA: D3 R4 M2 L3

PA: P2 U2 H1 S2 W2 E3

SA: S2 L2

*Context*

EC: L1 C09,13

TC: A1 I2 T2

SS: 4

SC: 5 (5y)

LMS: NA ( 1%SE)

ASIC: 27

**6352-D ASSISTANT PLANT OPERATOR (OIL  
TERMINAL)**

As directed, assists 6351-D PLANT OPERATOR (OIL TERMINAL) in the performance of his/her duties.

*Job Content Factors**Workers*

FP: GE10y

IP: T4-6m

HC: RC

RQ: D1 V1

*Materials*

SM: D2 T1

EQ: S2 M2

*Functions*

MA: D3 R4 M2 L3

PA: P2 U2 H1 S2 W2 E3

SA: S2 L2

*Context*

EC: L1 C09,13

TC: A1 I2 T2

SS: 4

SC: 5 (5 y)

LMS: NA ( 1%SE)

ASIC: 27

## MINOR GROUP 639

### OTHER CHEMICAL PROCESSING OCCUPATIONS

Other Chemical Processing Occupations are classified in the following unit groups.

- 6390 Foremen/women, Industrial and Medical Gases Production Occupations
- 6391 Foremen/women, Photographic Processing Occupations
- 6392 Plant Operators, Industrial and Medical Gas Products
- 6393 Process Workers, Industrial and Medical Gas Products
- 6394 Process Workers, Photographic Products
- 6399 Other Chemical Processing Occupations

#### 6390 FOREMEN/WOMEN, INDUSTRIAL AND MEDICAL GASES PRODUCTION OCCUPATIONS

This unit group covers supervisory occupations concerned with the production of industrial and medical gases.

**Entry Requirements** a basic vocational or para-professional certificate in an appropriate area plus 5 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### 6390-A FOREMAN/WOMAN, INDUSTRIAL AND MEDICAL GASES PRODUCTION OCCUPATIONS

Supervises and co-ordinates activities of workers engaged in the production of industrial and medical gases.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

##### *Job Content Factors*

##### *Workers*

FP: GE10-11y PSP2-3y(PPC) / (B)  
HC: REC

IP: E5y  
RQ: D1 V1

##### *Materials*

SM: D2 P1 T2

EQ: S2 M2 V2

##### *Functions*

MA: A2 P1 D2 R3 M3 L2

PA: U2 H2 S2 W2 E4

SA: S2 L2 B1 R3-4

##### *Context*

EC: L1 C02,09

SS: 7

TC: A1 I2

SC: 8 (10y)

LMS: NA ( 1%SE)

ASIC: 27

#### 6391 FOREMEN/WOMEN, PHOTOGRAPHIC PROCESSING OCCUPATIONS

This unit group covers supervisory occupations concerned with photographic processing.

**Entry Requirements** a basic vocational or para-professional certificate in an appropriate area plus 5 years' experience.

**Activities include** performing duties as described under SUPERVISOR/FOREMAN/WOMAN.

**6391-A FOREMAN/WOMAN, PHOTOGRAPHIC PROCESSING OCCUPATIONS**

Supervises and co-ordinates the activities of laboratory personnel in the developing and printing of still and motion picture film.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**Job Content Factors****Workers**

FP: GE10-11y PSP1-3y(PPC) / (B)

IP: E5y

HC: RAE

RQ: Q1 U2 D1 V1 A2

**Materials**

SM: D2 I2 P2 T1

EQ: P2 S1 M2

**Functions**

MA: I2 A2 P2 D2 R3 M2 L2

PA: P2 S2 W2 E2

SA: S2 L2 I2 B1 R2-4

**Context**

EC: L1 C09,08

TC: A1 I2 T2

SS: 7

SC: 7 (3y)

LMS: NA ( 5%SE)

ASIC: 27

**6392 PLANT OPERATORS, INDUSTRIAL AND MEDICAL GAS PRODUCTS**

This unit group covers occupations concerned with operating plant in the production of industrial and medical gases.

**Entry Requirements** Year 10 plus 3 years' experience.

**Activities include** operating plant to: process calcium carbide crystals and water into acetylene gas; make dry ice blocks from liquid carbon dioxide; and to compress, refrigerate and liquefy ammonia, chlorine or carbon dioxide gases.

**6392-A ACETYLENE PLANT OPERATOR  
Generator Man/Woman**

Operates generating equipment that processes calcium carbide crystals and water into acetylene gas.

Turns valves and reads gauges to control level of water in generator. Dumps specified quantity of calcium carbide crystals into hopper. Bolts cover on, and activates, generator. Opens hopper gate and starts vibrator that sifts crystals into generator. Tends compressor that compresses acetylene gas to specifications. Ascertains level of acidity or alkalinity of gas. Maintains record of operational data in logbook.

May assist in unloading and storing carbide crystals. May fill cylinders with compressed gas. May test cylinders and associated piping for leaks.

**Job Content Factors****Workers**

FP: GE10y

IP: E3y

HC: RC

RQ: D1 V1

**Materials**

SM: D2 P2 T1

EQ: S1 M1

**Functions**

MA: D3 R4 M3 L3

PA: U1 H1 W1 E4

SA: S2 L2

**Context**

EC: L1 C02,09

TC: A1 I2 R2

SS: 4

SC: 5 (2y)

LMS: NA ( 1%SE)

ASIC: 27

into expansion chamber where snow is formed by release in pressure. Operates hydraulic ram that compresses snow into blocks of dry ice. Pushes blocks onto conveyor that carries them under saws that cut blocks to specified size and transfers them onto scale. Records block weight on ticket. Places block in insulated bags, seals bag and attaches weight ticket. Loads blocks into insulated bins for storage or shipment.

**Job Content Factors****Workers**

FP: GE10y

IP: E3y

HC: RC

RQ: D1 V1

**Materials**

SM: D2 P2 T1

EQ: M1 V1

**Functions**

MA: D3 R4 M3 L3

PA: U1 H1 W1 E4

SA: S2 L2

**Context**

EC: L1 C02,09

TC: A1 I2 R2

SS: 4

SC: 5 (2y)

LMS: NA ( 1%SE)

ASIC: 27

**6392-C LIQUID GAS PLANT OPERATOR**

Controls compressors, blowers, condensers and evaporators to compress, refrigerate and liquefy ammonia, chlorine, or fluorocarbon gases.

Studies log sheet to ascertain demand and disposition of product and performance of plant equipment. Turns valves and adjusts controls to regulate temperatures, pressures, vacuum levels and flow rates in refrigerating systems and compressors to maintain prescribed flow of gas. Tests gas to ascertain deviations from specifications. Observes gauges, meters and level indicators, and adjusts controls to maintain related acid, oil or water systems. Directs workers engaged in filling cylinders or other containers, or transfers gas to storage. Records production and test data on log sheet.

May be designated according to type of gas liquefied, e.g.

Ammonia Gas Liquefier

Chlorine Gas Liquefier

Freeon Gas Liquefier

**6392-B DRY ICE MAKER**

Operates equipment such as hydraulic press, saws, conveyors and compressor to make dry ice blocks from liquid carbon dioxide.

Monitors meters, gauges and recording instruments to ensure specified temperature, pressures and flow of liquified carbon dioxide from tank car and gas recovery system. Observes operation of equipment to detect malfunctions and records operational data in logbook. Transfers liquid carbon dioxide

*Job Content Factors**Workers*

FP: GE10y

IP: E3y

HC: RC

RQ: D1 V1

*Materials*

SM: D2 P2 T1

EQ: M1

*Functions*

MA: D3 R4 M3 L3

PA: U1 H1 W1 E2

SA: S2 L2 B1 R3-4

*Context*

EC: L1 C02,09

TC: A1 I2 R2

SS: 5

SC: 5 (2y)

LMS: NA ( 1%SE)

ASIC: 27

**6393 PROCESS WORKERS, INDUSTRIAL AND MEDICAL GAS PRODUCTS**

This unit group covers basic processing occupations concerned with the manufacture of industrial and medical gas products.

**Entry Requirements** Year 10 in some cases.

**Activities include** performing duties concerned with the maintenance of gas cylinders, and tending equipment to fill containers with liquefied or compressed gases.

**6393-A COMPRESSED GAS PLANT WORKER**

Performs any combination of the following duties in a compressed and liquefied gas plant.

Rolls cylinders onto vehicles and records type and quantity of cylinders. Examines returned cylinders for surface defects, such as dents, cracks and burns, and rolls cylinders to designated work area. Connects exhaust manifold to cylinders and turns valves to draw off residual gas. Cleans exterior of cylinders, using wire brush to loosen rust and scale. Inserts nozzles into cylinders and turns valves to admit water, steam and air to scour and dry interior of cylinders.

May weigh filled cylinders on platform scales and record weight.

*Job Content Factors**Workers*

FP: GE10y

IP: T2m

HC: RC

RQ: D1 V1

*Materials*

SM: D2 P2 T1

EQ: S1 V1

*Functions*

MA: D3 R4 M3 L3

PA: U1 H1 W1 E4

SA: S2 L2

*Context*

EC: L1 C02

TC: A1 I2 R2

SS: 4

SC: 5 (2y)

LMS: NA ( 1%SE)

ASIC: 27

**6393-B PRESSURISED CONTAINER FILLER**

Tends equipment to fill containers such as portable cylinders or tank cars and trucks with liquefied or compressed gases e.g. propane, oxygen or hydrogen, using any combination of

the following methods.

Changes cylinder-filling valves, using wrench, or adjusts them to required tension, using torque wrench. Connects flexible lines from charging manifold to cylinders. Fills containers by one of the following methods: sets pressure gauge and listens for buzzer indicating that container is filled; adjusts valves and observes gauge to fill containers to specified pressure; or adjusts valves and observes scale indicator to fill containers to specified weight. Sprays or brushes solution onto container valves to detect leaks. Attaches labels or decals to cylinders or containers detailing container number and weight, type of gas, date of filling and precautionary warnings. Tests gas for purity, using burette and absorption testing equipment.

May inspect and purge empty containers. May test filled cylinders for specified gas pressure and temperature, using charts and gauges. May specialise in filling cylinders or aerosol cans and be designated accordingly, e.g.

Aerosol Can Filler

Cylinder Filler

*Job Content Factors**Workers*

FP: GE NFR

IP: T2m

HC: RC

RQ: D1 V1 A1

*Materials*

SM: D2 T1

EQ: S1 N1

*Functions*

MA: A1 D3 R4 M3 L3

PA: U1 H1 W1 E3

SA: S1

*Context*

EC: L3 C02,13

TC: A1 R1

SS: 3

SC: 5 (2y)

LMS: NA ( 1%SE)

ASIC: 27

**6394 PROCESS WORKERS, PHOTOGRAPHIC PRODUCTS**

This unit group covers basic processing occupations concerned with photographic products.

**Entry Requirements** Year 10.

**Activities include** developing and printing photographic film; and winding unexposed film onto spools.

### 6394-A PHOTOGRAPHIC DEVELOPER AND PRINTER

Develops and prints photographic film using one of the following methods.

Immerses exposed photographic film or sensitised paper in series of timed chemical and water baths to develop negative or positive print: mixes developing or fixing solutions according to formulas; immerses exposed film or photographic paper in developer solution to bring out latent image; immerses negative or paper in stop-bath to arrest developer action, in hypo-solution to fix image, and in water to remove chemicals; wipes excess water from negative or print, using sponge, and suspends print in air to dry, or dries print, using mechanical air drier; times period of immersion in each bath and maintains solutions and water at specified temperature. Tends machine to develop black and white or colour photographic prints from exposed photographic paper: threads leaders around rollers in processing tanks, around drum of dryer, and onto holding slot of takeup reel; splices ends of exposed photographic paper to leaders, using tape; turns valves to fill processing tanks with pre-mixed solutions such as developer, dyes, stop-baths, fixers, bleaches and washes; adjusts thermostat to maintain heated drum and solutions at specified temperature; starts machine and manipulates switches to synchronise drive speeds of processing and drying units; stops machine and unloads reel of photographic prints.

May produce colour slides, negatives and prints using colour reproduction process. May specialise in a particular phase of processing and be designated accordingly, e.g.

Colour Printer Operator	Copy Cameraperson
Film Developer	Film Examiner
Film Mounter	Film/Photograph Enlarger
Film Splicer/Cutter	Negative Cutter
Negative Producer	Printer, Motion Picture Film
Printer Tender	Print Finisher
Negative Contact Frame Operator	
Print Quality Examiner	

#### Job Content Factors

<b>Workers</b>	
FP: GE10y	IP: T2-6m
HC: RA	RQ: Q2 D1 V1 A2

#### Materials

SM: D2 T1 EQ: S2 M1

#### Functions

MA: D3 R4 M3 L2  
PA: P2 U1 H2 S2 W2 E2 SA: S2 L2

#### Context

EC: L1 C09,08 TC: A1 I2 T2  
SS: 5 SC: 6 (3y)

LMS: NA ( 5%SE)

ASIC: 27

### 6394-B FILM SPOOLER

Winds unexposed film onto spools in darkroom of photographic film plant.

Places empty spool onto take-up spindle of winding device. Attaches end of film strip from bulk supply reel to empty spool or bobbin. Presses button to start winding device and allow specified length of unexposed film onto spool. Stops rotation of take-up reel when notch in film, indicating required length, is felt passing between fingers. Cuts film, using shear. Presses gummed sticker over cut end of film on spool, or fits spool onto cassettes and presses light-tight caps over ends of cassette, using press.

May pass fingers over sheets of X-ray film spread on table to locate defects.

#### Job Content Factors

##### Workers

FP: GE10y IP: T2-6m  
HC: RC RQ: D2 V1

##### Materials

SM: D2 T1 EQ: S1 V1

##### Functions

MA: D3 R4 M3 L3  
PA: U1 H1 W1 E2 SA: S2 L2 B2 R4

##### Context

EC: L1 C09 TC: A1 I2 R2  
SS: 3 SC: 3 (1y)

LMS: NA ( 5%SE)

ASIC: 27

## 6399 OTHER CHEMICAL PROCESSING OCCUPATIONS

This residual unit group covers chemical processing occupations not elsewhere classified in Major Group 63.

**Activities include** operating equipment to produce linoleum and soap, and to process and render water available for domestic and industrial use; and assisting in the operation of such equipment.

### 6399-A LINOLEUM MAKER Floor-Covering Machine Operator; Oxidiser, Linoleum Oils

Controls one or more units of oxidising equipment to process oils and prepare them for use in production of hard surface floor covering.

Turns valves to admit prescribed amounts of ingredients into equipment according to formula. Adjusts valves to regulate air supply, as specified, to obtain oxidation. Sets thermostat to maintain prescribed temperature during oxidising cycle. Observes colour of batch through sightglass to determine completion of oxidation, according to process specifications. Opens bottom door to discharge mixture from oxidiser or

starts pumps to remove material for further processing. Operates flat bed presses that consolidate carrier and colour mix into moulded hard surface floor covering: starts mechanism that moves carrier (felt backing) over table and initiates colour depositing cycles; turns knob or opens air valve to move goods from table into flat bed presses; reads temperature on recording instruments to ascertain specified temperature and makes adjustments as necessary; observes operations from control panel to detect equipment malfunctions, and stops table movement to allow for necessary adjustments; determines, from specification data, length of goods required for storing and affixes register slip on material to guide storing workers.

May test viscosity of mixture, using viscometer. May operate machine that automatically cuts specified lengths of goods for storage.

#### Job Content Factors

##### Workers

FP: GE10y

IP: E3y

HC: RC

RQ: D1 V1

##### Materials

SM: D2 T1

EQ: M1

##### Functions

MA: D3 R4 M3 L3

PA: P2 U1 H1 W1 E3

SA: S2 L2 B2 R4

##### Context

EC: L1 C09

TC: A1 I2 R2

SS: 4

SC: 5 (5 y)

LMS: NA (1%SE)

ASIC: 27

### 6399-B SOAP MAKER

Controls equipment that heats and mixes ingredients to produce soap.

Charges mixing kettle with prescribed amounts of ingredients, such as tallow and lye. Admits water and steam through bottom of tank to heat and agitate mixture. Determines degree of alkalinity of caustic soda in mixture, and adds soda, salt or water as required. Observes mixture to detect variations, and determines when boiling and agitating cycles are completed, by observing consistency and homogeneity of product. Allows batch to cool and settle for specified time. Raises or lowers pumpline to locate separation level of neat (pure soap) and nigre (residue), and starts pump to transfer neat to next process. Lowers pumpline to bottom of tank to transfer nigre to reclaiming tank.

May calculate amount of ingredients needed to make various soaps and cleaning compounds, according to formula.

#### Job Content Factors

##### Workers

FP: GE10y

IP: E3y

HC: RC

RQ: D1 V1

##### Materials

SM: D2 T1

EQ: M1

##### Functions

MA: D3 R4 M3 L3

PA: U1 H2 W1 E3

SA: S2 L2 B2 R4

##### Context

EC: L1 C08,09

TC: A1 I2 R2

SS: 3

SC: 5 (5 y)

LMS: NA (1%SE)

ASIC: 27

### 6399-C WATER TREATMENT PLANT OPERATOR Water Purification Plant Operator

Controls pumping, dosing, settling, filtering and chemical treating equipment that processes and renders water available for domestic and industrial use.

Operates controls to activate valves and turbine or motor-driven pumps that transfer water from source to treatment plant and from treatment plant to reservoirs or mains. Reads and interprets flow meters, pressure and water

level gauges, and adjusts equipment to regulate water flow to meet demands. Operates filtering, chlorinating, fluoridating and alum processors to treat water according to results of samples analysis and bacteria counts. Activates remotely controlled valves and wash water pumps to backwash and clean filters. Operates sludge treatment equipment as required. Prepares reports and maintains log concerning water output, utilisation of equipment, chemical analysis and consumption of water.

May operate special equipment to remove mineral compounds from hard water. May treat water before use in industrial processes. May specialise in the operation of a particular section of the plant such as the sedimentation basins, filters or chemical treatment area and be designated accordingly, e.g.

Sedimentation Basin Operator

Filter Operator (Water Purification)

Chemical Treatment Operator

#### Job Content Factors

##### Workers

FP: GE8-10y PSP1y(B)

IP: T1y

HC: REI

RQ: S1 U2 D1 V1

##### Materials

SM: D2 T1

EQ: S1 N1 M1

##### Functions

MA: D3 R4 M3 L3

PA: U1 C1 W1 E2

SA: A1 S1

##### Context

EC: L4

TC: A1 I1 R1

SS: 4

SC: 4 (5 y)

LMS: NA (1%SE)

ASIC: 3701

### 6399-D WASTE WATER TREATMENT PLANT OPERATOR Disposal Plant Operator; Filtration Plant Operator; Sewerage Plant Operator

Operates treating, sludge processing and disposal equipment in waste water treatment plant.

Monitors control panel, and adjusts valves and gates that regulate the flow of sewage/waste water by remote control or manually. Observes variation in operating conditions, and interprets meter and gauge readings and test results to determine load requirements. Starts and stops pumps and motors to control flow of raw sewage/waste water through settling, aeration and sludge digestion processes. Records meter and gauge readings in operational log. Inspects equipment and directs other workers engaged in routine operations, such as servicing and cleaning. Takes samples and performs routine laboratory tests on sewage/waste water at various stages of processing.

May operate power generating equipment to provide steam and electricity for plant. May operate air blowers to provide air for aeration process.

#### Job Content Factors

##### Workers

FP: GE NFR PSP1y(B)

IP: T1y

HC: RIE

RQ: U2 D1 V1

##### Materials

SM: D2 P2 T1

EQ: M1 K2

##### Functions

MA: A1 P2 D2 R3 M3 L2

PA: U1 C2 W1 B2 E2

SA: A1 S1 B1 R0-3

##### Context

EC: L1 C02,08

TC: A1 I1 R1

SS: 4

SC: 4 (5 y)

LMS: NA (1%SE)

ASIC: 3702

### 6399-E ASSISTANT, OTHER CHEMICAL PROCESSING OCCUPATIONS

As directed, assists other chemical processing workers in the performance of their duties.

May specialise in assisting in a particular area of chemicals processing and be designated accordingly, e.g.

Assistant Linoleum Maker

Assistant Soap Maker

Assistant Waste Water Treatment Plant Operator; Sewage Disposal Worker

#### Job Content Factors

##### Workers

FP: GE10y

IP: T2-6m

HC: RC

RQ: D1 V1

##### Materials

SM: D2 T1

EQ: M1

#### Functions

MA: D3 R3 M3 L2

PA: U1 H1 W1 E3

SA: S2 L2

#### Context

EC: L1 C09

TC: A1 I2 R2

SS: 3

SC: 3 (2 y)

LMS: NA ( 1%SE)

ASIC: 27

#### 6399-Z

#### CHEMICAL PROCESSING OCCUPATIONS nec

This residual group covers chemical production and processing occupations not elsewhere classified in Major Group 63.

## **MAJOR GROUP 64**

### **CLAY, GLASS AND STONE WORKING OCCUPATIONS**

Clay, Glass and Stone Working Occupations are classified in the following minor groups.

- 640 Clay and Stone Working Occupations
- 641 Glassworking Occupations

# 64 CLAY, GLASS AND STONE WORKING OCCUPATIONS

## 640 CLAY AND STONE WORKING OCCUPATIONS

- 6400 SUPERVISORS/FOREMEN/WOMEN, CLAY AND STONE WORKING OCCUPATIONS**  
 6400-A Supervisor/Foreman/woman, Cement Production  
 6400-B Supervisor/Foreman/woman, Clay Processing Occupations  
 6400-C Supervisor/Foreman/woman, Stonemasons  
 6400-Z Supervisors/Foremen/women, Clay and Stone Working Occupations nec
- 6401 STONEMASONRY TRADE OCCUPATIONS**  
 6401-A Stonemason
- 6402 APPRENTICE CLAY AND STONE WORKING OCCUPATIONS**  
 6402-A Apprentice Stonemason
- 6403 KILN OPERATORS, CLAY AND STONE PRODUCTS**  
 6403-A Kiln Operator, Cement/Lime and Clay Products  
 6403-B Tunnel Kiln Operator, Clay Products
- 6404 PRODUCTION AND FORMING MACHINE OPERATORS, CLAY AND STONE PRODUCTS**  
 6404-A Batchers, Premix Concrete  
 6404-B Moulder/Machine Operator, Fibre-Cement  
 6404-C Porcelain Turner  
 6404-D Machine Operator, Cement Pipe  
 6404-E Concrete Pre-cast Moulder  
 6404-F Extruder Operator, Clay Products  
 6404-G Press Operator, Clay Products  
 6404-H Machine Operator, Stone  
 6404-I Cement Plant Operator  
 6404-Z Production and Forming Machine Operators, Clay and Stone Products nec
- 6405 INSPECTING, TESTING AND GRADING OCCUPATIONS, CLAY AND STONE PRODUCTS**  
 6405-A Tester, Clay and Stone Products
- 6406 PRODUCTION AND FORMING MACHINE OPERATORS, CLAY AND STONE PRODUCTS (OTHER)**  
 6406-A Plasterboard Maker  
 6406-B Insulation Maker  
 6406-C Clay Processing and Forming Machine Tender
- 6407 BASIC PROCESSING OCCUPATIONS, CLAY AND STONE PRODUCTS**  
 6407-A Process Worker, Fibre-Cement

## 641 GLASSWORKING OCCUPATIONS

- 6410 SUPERVISORS/FOREMEN/WOMEN, GLASS OCCUPATIONS**  
 6410-A Supervisor/Foreman/woman, Glass Processing Occupations  
 6410-B Supervisor/Foreman/woman, Optical Machining
- 6411 INDUSTRIAL GLASS BLOWING OCCUPATIONS**  
 6411-A Glass-Blower, Molten Tank  
 6411-B Scientific Glass Apparatus Blower  
 6411-C Glass-Blowing Lathe Operator
- 6412 OPTICAL INSTRUMENTS AND OPHTHALMIC MECHANICS TRADE OCCUPATIONS**  
 6412-A Precision Grinder  
 6412-B Ophthalmic Lens Surfer and Fitter
- 6413 GLASS TRADE OCCUPATIONS**  
 6413-A Glazier  
 6413-B Beveller  
 6413-C Glass Cutter, Skilled  
 6413-D Glass Bender  
 6413-Z Glass Trade Occupations nec
- 6414 APPRENTICE GLASS PRODUCTS OCCUPATIONS**  
 6414-A Apprentice Flat Glass Tradesperson  
 6414-B Apprentice Glass Bender
- 6415 TRAINEE OCCUPATIONS, GLASS PRODUCTS**  
 6415-A Trainee Glass-Blower, Molten Tank
- 6416 INSPECTING, TESTING AND GRADING OCCUPATIONS, GLASS PRODUCTS**  
 6416-A Glassware Verifier
- 6417 GLASS MACHINING OCCUPATIONS**  
 6417-A Glassware Maker  
 6417-B Glass Melt Operator  
 6417-C Glassware Process Operator  
 6417-D Glassware Process Assistant
- 6419 OTHER GLASSWORKING OCCUPATIONS**  
 6419-Z Glassworking Occupations nec

## MINOR GROUP 640

### CLAY AND STONE WORKING OCCUPATIONS

Clay and Stone Working Occupations are classified in the following unit groups.

- 6400 Supervisors/Foremen/women, Clay and Stone Working Occupations
- 6401 Stoneworking Trade Occupations
- 6402 Apprentice Clay and Stone Working Occupations
- 6403 Kiln Operators, Clay and Stone Products
- 6404 Production and Forming Machine Operators, Clay and Stone Products
- 6405 Inspecting, Testing and Grading Occupations, Clay and Stone Products
- 6406 Production and Forming Machine Operators, Clay and Stone Products (Other)
- 6407 Basic Processing Occupations, Clay and Stone Products

#### 6400 SUPERVISORS/FOREMEN/WOMEN, CLAY AND STONE WORKING OCCUPATIONS

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in a variety of clay and stone product processing and forming operations.

**Entry Requirements** Year 10-11 plus 5-6 years' experience and/or in some cases a para-professional/trade qualification.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN; supervising activities of workers engaged in separating, crushing, grinding, mixing, forming, firing, setting and sorting clay and stone products, and in manufacturing cement.

#### 6400-A SUPERVISOR/FOREMAN/WOMAN, CEMENT PRODUCTION

Supervises and co-ordinates the activities of workers engaged in manufacturing cement, cement products, premix concrete or other related products.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May possess metal trade skills and supervise the setting of production machinery. May be designated according to the product type, e.g.

- Supervisor/Foreman/woman, Cement Making
- Supervisor/Foreman/woman, Concrete Products
- Supervisor/Foreman/woman, Fibre-Cement
- Supervisor/Foreman/woman, Lime Making
- Supervisor/Shipper, Premix Concrete

#### *Job Content Factors*

##### *Workers*

FP: GE11y PSP	IP: T3m E6y
or FP: GE10-11y PSP2-4y(PPC) / (T)	IP: T4m E0-6y
HC: RIE	RQ: V2 A1

##### *Materials*

SM: D2 P2 T1	EQ: P2 S2 M2 K2
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##### *Functions*

MA: A2 P1 D2 R3 M3 L2	
PA: P2 U2 S2 W2 E1	SA: S2 L2 B1 R3-4

##### *Context*

EC: L4 C02,09,06	TC: A1 I1 T2
SS: 4	SC: V

LMS: NA (0 %SE)

ASIC: 287

#### 6400-B SUPERVISOR/FOREMAN/WOMAN, CLAY PROCESSING OCCUPATIONS

Supervises and co-ordinates activities of workers engaged in separating, crushing, grinding, mixing, forming (pressing and extruding), burning (fire/baking), setting (stacking) and

sorting clay and clay products.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.

Claymaker-in-Charge  
Supervisor/Foreman/woman, Burning (Head Burner)  
Supervisor/Foreman/woman, Forming (Clay Processing)  
Supervisor/Foreman/woman, Grading, Sorting and  
Finishing (Clay Processing)

#### Job Content Factors

<b>Workers</b>	
FP: GE10y	IP: T2m E5y
HC: REC	RQ: D2 V1 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: S2 M1
<b>Functions</b>	
MA: I2 A2 P1 D2 R3 M2 L2	
PA: P2 C2 S2 W2 B2 E2	SA: S2 L1 B1 R2-4
<b>Context</b>	
EC: L1 C09,01,06	TC: A1 I2 T2
SS: 4	SC: V
LMS: NA (0 %SE)	ASIC: 286,288

#### 6400-C SUPERVISOR/FOREMAN/WOMAN, STONEMASONS

Supervises and co-ordinates activities of stonemasons engaged

in processing stone by machines or hand.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### Job Content Factors

<b>Workers</b>	
FP: GE11y PSP	IP: T3m E6y
or FP: GE10-11y PSP2-4y(PPC) / (T)	IP: T4m E0-6y
HC: RIE	RQ: V2 A1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S2 M2 K2
<b>Functions</b>	
MA: A2 P1 D2 R3 M3 L2	
PA: P2 U2 S2 W2 E1	SA: S2 L2 B1 R3-4
<b>Context</b>	
EC: L4 C02,09,06	TC: A1 I1 T2
SS: 4	SC: V
LMS: NA (0 %SE)	ASIC: 288,423

#### 6400-Z SUPERVISORS/FOREMEN/WOMEN, CLAY AND STONE WORKING OCCUPATIONS nec

This residual group covers supervisors/foremen/women in clay and stone occupations, not elsewhere classified in Unit Group 6400.

### 6401 STONEMASONRY TRADE OCCUPATIONS

This unit group covers occupations concerned with preparing structural stone and related materials for building.

**Entry Requirements** a trade qualification in stonemasonry.

**Activities include** examining plans and specifications; directing activities of apprentices and assistants; and operating machines for processing stone from the rough sawn quarry state to a form that is suitable for building.

#### 6401-A STONEMASON Banker Mason; Monumental Mason; Shop Mason

Operates machines for processing stone from the rough sawn quarry state to a form that is suitable for building, erecting as monuments, or other purposes.

Tends various machines including hand tools, pneumatic tools, saws, drills and abrasive blasting equipment. Cuts and shapes stone to specifications by splitting or sawing, grinding, polishing and letter cutting and designing monumental masonry work.

May cut stencils using press for use in sandblasting or, less commonly, use hammer chisel for the skilled job of carving letters and design work on monumental stone. May specialise in a particular aspect of stonemasonry.

#### Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
HC: RAC	RQ: Q2 D2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P1 S1 M1 W2
<b>Functions</b>	
MA: A2 P2 D2 R3 M2 L2	
PA: P1 U2 C1 W1 B2 E4	SA: S1 L2 I2 B2 R4
<b>Context</b>	
EC: L1 C09,02,04	TC: A1
SS: 5	SC: 8 (4 y)
LMS: 400 (50%SE)	ASIC: 288,423

## 6402 APPRENTICE CLAY AND STONE WORKING OCCUPATIONS

This unit group covers apprentice stonemasonry trade occupations.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

### 6402-A APPRENTICE STONEMASON

Receives instruction and training in the trade of stonemasonry.

Perform duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May receive training and instruction in a specialised area of stonemasonry and be designated accordingly, e.g.

Apprentice Monumental Mason

Apprentice Stone Polisher

Apprentice Machinist, Stonemasonry

#### Job Content Factors

##### Workers

FP: GE10y

HC: RA

IP:

RQ: Q2 D2 V1

##### Materials

SM: D2 T1

EQ: P1 S1 M1 W2

##### Functions

MA: D3 R3 M2 L2

PA: P1 U1 C1 H2 W1 B2 E4

SA: S2 L1

##### Context

EC: L1 C09,02,04

SS: 1

TC: A1 R2

SC: 3 (4 y)

LMS: 100 (0 %SE)

ASIC: 288,423

## 6403 KILN OPERATORS, CLAY AND STONE PRODUCTS

This unit group covers occupations concerned with operating kilns to fire cement/lime and clay products.

**Entry Requirements** Year 10-11 and up to 2 years' experience.

**Activities include** determining production requirements, igniting kilns, and determining and adjusting level and uniformity of temperature in kiln; determining when firing is completed and closing fuel valves to stop firing; inspecting kiln for faults; and directing assistants in checking, lubricating, sampling and general cleaning duties.

### 6403-A KILN OPERATOR, CEMENT/LIME AND CLAY PRODUCTS Burner, Kiln

Operates a periodic kiln e.g. down draft kiln, or continuous kiln (excluding tunnel kiln), to fire (bake) products, such as bricks, tiles, porcelain and pottery ware to a specified hardness, and a continuous process rotary kiln and other equipment to produce a specified lime or cement clinker.

Determines production requirements for kiln operation. Opens fuel valves and lights gas or oil jets, or feeds coal or wood into firebox and ignites it. Observes pyrometric cones, saggars or product being fired to determine level and uniformity of temperature at various sections in the kiln. Records temperature readings observed on remote reading dials of electronic temperature probes. Adjusts fuel feed and air draught to regulate kiln temperature, and adjusts controls to reduce wear and prevent dust emissions. Monitors function of other equipment such as preheaters, conveyors, coders and

electrostatic filters. Determines when firing is completed and closes fuel valves to stop firing. Inspects kiln for faults and directs assistants in checking, lubricating, sampling and general cleaning duties. Controls appropriate response to kiln breakdown, power failure or start up and shutdown procedures.

May operate dryer to reduce moisture content of product prior to firing. May operate semi-automatic electrically-heated kiln. May re-bake products after glaze or decoration is applied to ware. May fire specified product, employ specific process such as salting (adding salt to final firing to achieve glass glaze on product), or operate periodic kilns, dryers or ovens of various sizes. May remove and replace recording charts. May perform refractory brick removal and replacement during shutdown periods. May work in central control room and monitor other plant by operating a computer control panel, observing TV screens and multi-colour recording charts and operating the production communication systems. May be designated according to type of kiln operated, e.g.

## Continuous Kiln Operator      Down Draft Kiln Operator

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y	IP: T6-26w E2y
HC: RCE	RQ: D2 V1 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S2 M1 K2
<b>Functions</b>	
MA: I2 A2 P2 D2 R3 M3 L3	
PA: U1 C2 S2 W1 E3	SA: S1 B1 R4
<b>Context</b>	
EC: L1 C01,06,04	TC: A1 I1 R2
SS: 3	SC: V
LMS: NA (0 %SE)	ASIC: 286,287

**6403-B TUNNEL KILN OPERATOR, CLAY PRODUCTS  
Burner, Tunnel Kiln**

Operates tunnel kiln to fire (bake) products, such as bricks, tiles, porcelain and pottery ware, to specified hardness.

Reads work order to determine production requirements for tunnel kiln operation. Operates transfer car to remove loaded kiln cars from drying room or tunnel dryer to entrance of kiln. Opens door of kiln and attaches loaded kiln cars to mechanism that propels train of kiln cars through kiln at specified rate. Observes, through peepholes, pyrometric cones, saggars or products being fired to determine temperature level

at various sections of the kiln. Observes and records readings from kiln temperature meters. Adjusts air draught and fuel feed to regulate kiln temperature according to specifications. Isolates, removes, cleans and replaces gas or oil jets as required. Opens kiln door at end of firing cycle and moves loaded cars from tunnel kiln to sorting area, using transfer car. Reports details of breakdowns, malfunctions, work progress and firing schedule to supervisor. Removes and replaces recording charts as required. Maintains log showing product, temperature, humidity, and duration of firing.

May operate drying tunnel to condition and preheat products preparatory to firing. May operate kiln heated by electricity. May re-bake products after glaze is applied. May fire specific product, employ specific process, or operate tunnel kilns or ovens of various sizes.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T6m
HC: RCE	RQ: D1 V1 A2
<b>Materials</b>	
SM: D2 T1	EQ: S1 M1 V2
<b>Functions</b>	
MA: A2 P2 D2 R4 M3 L3	
PA: U1 C2 H1 S2 W1 B2 E3	SA: S1 B2 R4
<b>Context</b>	
EC: L1 C01,04,06	TC: A1 I1 R2
SS: 4	SC: V
LMS: NA (0 %SE)	ASIC: 286

**6404 PRODUCTION AND FORMING MACHINE OPERATORS, CLAY AND STONE PRODUCTS**

This unit group covers occupations concerned with operating machinery used in forming clay, stone, concrete, masonry and paving products.

**Entry Requirements** Year 10 in some cases and up to 2 years' experience in some cases.

**Activities include** operating forming machines for structural concrete masonry and paving products; operating and lubricating large plant in the production of lime, cement or clinker; operating machines to make and finish fibre-cement pipes and a variety of moulded concrete products; operating automatic machines that cut extruded clay and press tempered clay to make bricks and tiles; operating lathes to cut clayware to manufacture items such as insulators and abrasive wheels, and a variety of lathes, drills and boring mills to shape asbestos-cement pipe and fittings.

**6404-A BATCHER, PREMIX CONCRETE**

Prepares batches of concrete of specified composition for delivery by vehicle mounted agitators or on-site moulding, and assumes responsibility for quality of batch.

Copies down and confirms batch details with shipper. Obtains composition and quantities from data storage device and separately weighs quantities of cement, sand, gravel, other additives, and water using manual scales or console controls. Adds pigment for colouring where necessary. Checks position and rotation of vehicle agitator, signals driver to increase rotation speed then discharges materials by varying flow rates to achieve even mixture. Signals end of discharging and inspects mixture to judge 'slump'. Operates controls to transfer materials to gravity feed tanks. Cleans equipment and work area, and checks records.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T3-6w E1y
HC: RCS	RQ: V2 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 M1 K1
<b>Functions</b>	
MA: I2 D3 R4 M2 L3	
PA: P2 C1 S2 W2 E1	SA: S1
<b>Context</b>	
EC: L1 C04	TC: A1 I1 R2 T1
SS: 4	SC: V
LMS: 700 (0 %SE)	ASIC: 287

**6404-B MOULDER/MACHINE OPERATOR, FIBRE-CEMENT**

Operates machines to make and finish fibre-cement pipes and sheets, or hand mould wet sheets to make complex shaped products.

Controls automatic pipe or sheet forming machine by observing forming time and quality. Changes mandrels, plates or rollers and adjusts machine settings to meet specifications of different products. Monitors the function of electrolytic stripper and mandrel puller or sheet peel off and water jet cutting operations. Assists in replacing main belt. Operates lathes or saws to cut products or finish ends. Operates pipe pressure testing plant. Operates and feeds silica grinding mills or fibre treatment mills, fibrisers and storage bins. Weighs prescribed quantities of asbestos, wood fibre, silica, cement and pigments, mixes them and transfers to holding tanks. Cleans machinery and work areas, maintains appropriate records and monitors extractor systems or autoclave's loading and function.

May specialise in hand moulding of wet fibre-cement sheets by pressing on to moulds, trimming overlaps and stacking to dry, or in other specialist duties, and be designated accordingly, e.g.

Fibre-Cement Moulder      Fibre-Cement Control Hand  
Fibre-Cement Treater/Mixer

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T1-5m Ely
or FP: GE10y	IP: T6-12m
HC: RA	RQ: D2 V1
<b>Materials</b>	
SM: D2 T1	EQ: P1 S2 M1 W2
<b>Functions</b>	
MA: A2 D3 R3 M3 L3	
PA: P1 U2 C2 H2 W1 E3	SA: S2 L2 B2 R4
<b>Context</b>	
EC: L1 C08,09,02	TC: A1 I1 R2
SS: 4	SC: V
LMS: 600 (0 %SE)	ASIC: 2884

**6404-C      PORCELAIN TURNER**  
**Greenware Turner**

Operates vertical or horizontal lathe to cut and shape green (unfired) clayware or similar material to manufacture items such as insulators and abrasive wheels.

Positions and centres greenware on vertical lathe or mounts ware between spur chuck and tail stock on horizontal lathe. Starts machine and guides tool against revolving ware to produce specified shape or size.

May smooth surface. May adjust automatic machines used by porcelain turners, according to the pattern specified by work order or drawings, and be designated accordingly, e.g.

Machine Setter, Porcelain Turning Machine

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T6m E3-12m
HC: R	RQ: D2 V2
<b>Materials</b>	
SM: T1	EQ: P2 S1 M1
<b>Functions</b>	
MA: D3 R4 L3	
PA: P2 U1 C1 H2 W1 E3	SA: S1 L2
<b>Context</b>	
EC: L1 C09,06	TC: A1 I2 R1
SS: 4	SC: V
LMS: NA (0 %SE)	ASIC: 286

**6404-D      MACHINE OPERATOR, CEMENT PIPE**

Operates a variety of lathes, drills and boring mills to shape cured and uncured asbestos-cement pipe and fittings.

Reads work order to ascertain product specifications. Lifts items on to machine manually or using hoist. Positions item on machine, using expanding arbors, air chucks, centres and fixtures. Machines item to specifications, using manual, automatic or hydraulic tool feed, and adjusts machine speed or tool feed to minimise chatter. Adjusts tool's position to

correct dimensional errors. Removes tool marks on rotating item manually, using abrasive paper. Inspects item to verify conformity with specifications, using fixed gauges, calipers and scale, and rejects defective items.

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T6m E1-2y
HC: R1	RQ: D2 V1
<b>Materials</b>	
SM: D2 T1	EQ: P2 S1 M1
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: P1 U2 C1 H2 W1 E4	SA: S1 L2
<b>Context</b>	
EC: L1 C09,06,04	TC: A1 I2 R2
SS: 2	SC: V
LMS: NA (0 %SE)	ASIC: 287

**6404-E      CONCRETE PRE-CAST MOULDER**

Operates machinery to produce a variety of moulded concrete products, performing any combination of the following duties.

Controls operation of an automatic concrete moulding machine producing bricks, tiles and paving blocks. Inspects quality and finish of products and advises supervisor of variations from specifications. Monitors operation of automatic stacking machines, splitters or cubers. Loads steel pipe or pipe mould on to rollers, rotates to required speed and operates internal concrete spreading device. Engages vibrator roller or compressor bar and spins for required time and speed to harden concrete and remove water. Uses long handled trowel as required. Operates concrete mixer/sprayer machine to build up concrete on large single unit moulds. Attaches vibrator units to large moulds or uses vibrating table for small moulds, fills mould with concrete, and levels and finishes exposed surface. Cleans machines and work area. Assembles and fixes reinforcing rods or mesh.

May adapt moulds to produce a variation of the basic shape, load, unload and control the function of curing rooms, operate tensioner or assist in the assembly and tensioning of cables for pre-stressed concrete products, and be designated accordingly, e.g.

Concrete Machine Moulder    Concrete Pipe Spin-Caster  
Model and Mould Maker, Plaster  
Terrazzo Moulder  
Model and Mould Maker, Concrete Products

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T2-6w E1y
HC: R	RQ: D2 V1
<b>Materials</b>	
SM: T1	EQ: S2 M1 W2
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: U2 C1 H2 W1 E4	SA: S1 L2
<b>Context</b>	
EC: L4 C09,08,04	TC: A1 R1
SS: 4	SC: V
LMS: 400 (0 %SE)	ASIC: 287

**6404-F      EXTRUDER OPERATOR, CLAY PRODUCTS**

Operates automatic machines that mix ingredients, extrude tempered clay mixture and cut extruded clay into section to make products such as bricks, tiles and porcelain ware.

Selects dies, cores, rings and cutter assembly, for installation by fitters, according to product specifications (type and size of product). Sets controls on automatic cut-off knives or wires to cut extruded clay to specified dimensions. Starts mixing machines and adjusts valves to feed and regulate flow of ingredients into machine. Starts pug mill, and turns valves to add water and oil to mixture or to increase vacuum in pug mill. Starts automatic extruding and cutting machines.

Replaces cutting wires as required. Examines product to detect deviations from specified consistency, size and shape, using fingers, measuring instruments and product sample. Adjusts valves and controls until product meets specifications.

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T2-3m
HC: RC	RQ: D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: S1 N2 M1
<b>Functions</b>	
MA: D2 R4 M3 L3	
PA: U1 C2 H1 W1 E3	SA: S1 L2
<b>Context</b>	
EC: L1 C09,04,06	TC: A1 R1
SS: 4	SC: V
LMS: NA (0 %SE)	ASIC: 286

**6404-G PRESS OPERATOR, CLAY PRODUCTS**

Operates automatic machines that mix ingredients and press tempered clay to make products such as bricks, tiles, porcelain and pottery ware.

Selects dies, for installation by fitters, according to product specifications (type and size of product). Starts pug mill, and turns valves to add water and oil to mixture or to increase vacuum in pug mill. Starts automatic press. Examines product to detect deviations from specified consistency, size and shape, using fingers, measuring instruments and product sample. Adjusts valves and controls until product meets specifications.

May operate particular types of machines and be designated accordingly, e.g.

Brick Press Operator  
Flower Pot Pressman/woman  
Hot Press Operator (Clay Products)  
Ram Press Operator

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T2-3m
HC: RC	RQ: D1 V1
<b>Materials</b>	
SM: T1	EQ: S1 N2 M1
<b>Functions</b>	
MA: D2 R4 M3 L3	
PA: U1 H1 W1 E3	SA: S1 L2
<b>Context</b>	
EC: L1 C09,04,06	TC: A1 R1
SS: 4	SC: V
LMS: NA (0 %SE)	ASIC: 286

**6404-H MACHINE OPERATOR, STONE  
Machinist, Stonemasonry**

Operates fixed heavy stone preparation machinery and also portable stone preparation and finishing machinery under the supervision of a stonemason.

Positions stone to be cut or worked upon on machine, sets grinding or cutting edge in position and activates machine, checks progress of operation at intervals, adjusts equipment to obtain maximum performance, and moves stone from machine for further processing as required. Operates portable hand held machinery to polish, cut or inscribe roughly hewn stone to finished condition.

May specialise in a particular aspect of stonework and be designated accordingly, e.g.

Block Sawyer, Stone      Edge Polisher  
Finishing Machinist, Stone      Letter Cutter, Stone

Profile Planer, Stone  
Secondary Sawyer, Stone  
Stone Polisher  
Terrazzo Polisher

Primary Sawyer, Stone  
Stone Fixer  
Stone Sawyer

**Job Content Factors**

<b>Workers</b>	
FP: GE9y	IP: T2-3m
HC: RA	RQ: D2 V1 A2
<b>Materials</b>	
SM: T1	EQ: S1 M1 W1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: P2 U1 H1 W1 E4	SA: S2 L2
<b>Context</b>	
EC: L1 C09,06,04	TC: A1 R1
SS: 3	SC: V
LMS: NA (0 %SE)	ASIC: 288,423

**6404-I CEMENT PLANT OPERATOR**

Operates, patrols and lubricates large plant in the production of lime, cement or clinker.

Monitors meter readings, indicators and recorders to maintain production specifications. Inspects the input and output quality, and either alters settings or reports variations to the supervisor. Inspects equipment, maintains lubrication schedule, cleans work area and spillages, and takes samples. Maintains safety with supervisors or other operators. Records production details. Operates slurry mills and their pumps, and clinker mills. Monitors the addition of gypsum, and the screening and distribution of slurry to storage silos. Operates a grab crane in storage shed to fill bins for mills with clinker, gypsum or shale, and operates premix stacking and the reclaiming plant to provide raw materials.

May operate a weighbridge to load bulk cement or clinker into trucks for despatch, or assist cement kiln operator or shift supervisor by inspecting and lubricating kilns, flow systems and other plant. May remove and replace refractory brickwork during plant close downs. May specialise in a particular aspect of cement plant work and be designated accordingly, e.g.

Bulk Cement Station Attendant  
Cement Crane Operator  
Cement Miller  
Cement Patrolman/woman; Cement Kiln Attendant

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T2-4w E0-1y
HC: RI	RQ: V2 A2
<b>Materials</b>	
SM: D2 T1	EQ: S1 M1
<b>Functions</b>	
MA: A2 D3 R3 M3 L3	
PA: U2 C1 S2 W2 B2 E2	SA: A2 S1
<b>Context</b>	
EC: L1 C02,06,12	TC: A1 I1 R2
SS: 3	SC: V
LMS: 330 (0 %SE)	ASIC: 287

**6404-Z PRODUCTION AND FORMING  
MACHINE OPERATORS, CLAY AND  
STONE PRODUCTS nec**

This residual group covers clay and stone forming occupations not elsewhere classified in Unit Group 6404, e.g.

Banding Machine Tender      Brake Lining Finisher  
Carbon Planer Tender      Model Maker, Pottery  
Plaster Die Maker  
Polisher (Abrasive Wheels); Diamond Wheel Finisher

### 6405 INSPECTING, TESTING AND GRADING OCCUPATIONS, CLAY AND STONE PRODUCTS

This unit group covers occupations concerned with inspecting and testing clay and stone occupations.

**Entry Requirements** Year 10-11 plus 1-2 years' experience.

**Activities include** inspecting, cutting, collecting samples and recording results of tests.

#### 6419-A TESTER, CLAY AND STONE PRODUCTS

Collects, and performs quality control tests on, samples taken from all stages in the production of cement, and cement and clay products.

Collects samples as scheduled, and inspects, cuts or divides, and stores them. Conducts specified physical or chemical tests, and records results. Tests products to prescribed standards of load, stress or destruction. Reports results to supervisor or operators. Cleans testing area and maintains stock supply.

May perform other duties such as answering production communication system, relieving plant operators and replacing refractory brickwork. May perform daily calibration tests of equipment.

#### Job Content Factors

##### Workers

FP: GE10-11y

IP: T2-3m E1-2y

HC: IRC

RQ: D2 V1 A2

##### Materials

SM: D2 T1

EQ: P1 S2 M2

##### Functions

MA: A2 D3 R4 M3 L3

PA: P1 U2 S2 W2 E2

SA: S1 L2

##### Context

EC: L3 C09

TC: A1 I1

SS: 4

SC: V

LMS: NA (0 %SE)

ASIC: 286,287,288

### 6406 PRODUCTION AND FORMING MACHINE OPERATORS, CLAY AND STONE PRODUCTS (OTHER)

This unit group covers basic machine operators concerned with the fabrication of clay, stone and related products.

**Entry Requirements** Year 9-10 in some cases.

**Activities include** operating machinery to make plaster products; performing duties in the production of mineral fibre, fibreglass, other heat insulation materials, fibre-cement pipes and sheets, and other cement, clay and concrete products; and tending machinery that grinds, mixes, blends, presses, filter presses, shapes, applies glazes or sets clay products.

#### 6406-A PLASTERBOARD MAKER

Operates machinery to make plasterboard or other plaster products, performing any combination of the following duties.

Weights additives and operates equipment which mixes a continuous batch of plaster to supply the forming machine. Loads paper rolls and monitors brand printing equipment. Maintains glue supply, monitors slurry quality and flow rate, and checks paper heating, folding and board forming. Monitors operation of the guillotine and switches which cut board to length. Operates finished board stacking and wrapping equipment. Conducts quality control tests and measurements at different stages of production. Ignites drying kiln burners or adjusts machines to produce different size and type of product. Cleans equipment and work area, and reclaims damaged products.

May maintain production records, or produce special finish plasterboard or cornices or compounds for stopping and jointing plasterboard. May make school chalk or mould a variety of fibrous plaster ornaments and tiles. May also be designated according to specialised functions, e.g.

Fibrous Plaster Maker

Plasterboard Knife Operator

Plasterboard Loader Operator

Plasterboard Mixing Operator

Plasterboard Tester

#### Job Content Factors

##### Workers

FP: GE NFR

IP: T2-4w

HC: R

RQ: D2 V2

<i>Materials</i>	
SM: T1	EQ: M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C2 H1 W1 E3	SA: S1
<i>Context</i>	
EC: L1 C09	TC: A1 I1 R2
SS: 5	SC: V
LMS: NA (0 %SE)	ASIC: 2881

**6406-B INSULATION MAKER**

Performs any combination of the following duties in the production of mineral fibre, fibreglass and other heat insulation materials.

Controls plant which collects fibre and presses it into sheets or winds it on to rolls. Operates machine which builds sectional pipe insulation (SPI) on a mandrel, changes mandrels for different sizes and grinds to external diameter. Tends resin spraying and oven drying/curing plant. Tends machinery which sprays adhesive, fixes various facing materials and cuts sheets to size or special shapes of slit SPI. Operates machine which fiberises offcuts and bags it for spraying installation. Stacks insulation pieces and packages for storage or despatch.

May operate paper treatment plant to produce cellulose insulation. May specialise in charging and operating a cupola or electric furnace, controlling the flow of liquid rock on to spinning wheels or gravity attenuation to produce fibres and be designated accordingly, e.g.

Insulation Cupola Operator/Spinner  
Insulation Furnace Operator

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T1-4w
HC: R	RQ: D2
<i>Materials</i>	
SM: T1	EQ: N2 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C2 H1 W1 E3	SA: S2 L1
<i>Context</i>	
EC: L1 C02,09,01	TC: A1 R1
SS: 4	SC: V
LMS: 450 (0 %SE)	ASIC: 2883

**6406-C CLAY PROCESSING AND FORMING MACHINE TENDER**

Tends automatic machine that either grinds, mixes, blends, presses, filter presses, shapes, applies glazes, or sets (stacks) clay or clay products and ensures that machine operates within pre-determined tolerances.

Pushes buttons and turns switches to start machine. Observes operation to ensure equipment is functioning normally and that the product meets pre-determined requirements. If defects occur, pushes buttons and turns switches to stop machine, and advises supervisor. Removes minor obstructions and clears blockages. Swabs dies and cleans equipment as required. Monitors flow of clay or clay products into machines and adjusts simple flow regulating advice as required.

May place pugged clay of specified size on die face or into jigger and remove shaped ware after pressing or spin moulding, or specialise in other related duties, and be designated accordingly, e.g.

Apron Feeder, Clay Crusher, Clay  
Dry Press Operator, Clay Glaze Mixer  
Automatic Brick Setting Machine Operator  
Filter Press Attendant, Clay  
Grinding Pan Tender, Clay Processing  
Hammermill Operator  
Jiggerman/woman, Clay Processing  
Mill Tender, Clay Processing  
Mould Feeder, Clay Processing  
Spray Gun Operator, Clay Processing  
Strapping Machine Operator/Dipper, Clay Processing

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE9-10y	IP: T2-4w
HC: R1	RQ: D1 V1 A2
<i>Materials</i>	
SM: T1	EQ: S2 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C2 H1 W1 B2 E2	SA: S1 L2
<i>Context</i>	
EC: L1 C09,06,04	TC: A1 R2
SS: 4	SC: V
LMS: NA (0 %SE)	ASIC: 286

**6407 BASIC PROCESSING OCCUPATIONS, CLAY AND STONE PRODUCTS**

This unit group covers occupations concerned with basic handling and finishing duties in the production of fibre-cement.

**Entry Requirements** no formal requirements.

**Activities include** performing handling, stacking, machine tending and cleaning duties.

**6407-A PROCESS WORKER, FIBRE-CEMENT**

Performs any combination of the following basic handling and finishing duties in the production of fibre-cement pipes, sheets and other products.

Removes moulds from complex shaped pieces, and inspects and stacks them separately. Rolls pipes on to cooling table, removes end caps and stacks on to autoclave trucks. Tends machine which lifts wet sheets or forms corrugated sheets,

interleaves them with spacers, and stacks on to trucks for drying/autoclaving. Cleans machined ends of cured pipes, checks dimensions, moves pipes on trolleys or operates docking saw to cut pipes. Tends machine which fixes special surfaces to sheets. Feeds cured sheets to machines which cut special shapes or bevel edges, then inspects and stacks for despatch. Stacks fibre-cement products on large pallets and secures them using timber frames and metal straps. Cleans work areas and assists machine operators as required.

Job Content Factors

Workers	
FP: GE NFR	IP: T1-2w
HC: R	RQ: D2
Materials	
SM: T1	EQ: N2 M2 W2

Functions

MA: D3 R4	
PA: U1 H1 W1 E4	SA: S2 L2
Context	
EC: L1 C02	TC: A1 I1 R2
SS: 4	SC: V
LMS: 500 (0 %SE)	ASIC: 2884

MINOR GROUP 641  
GLASSWORKING OCCUPATIONS

Glassworking Occupations are classified in the following unit groups.

- 6410 Supervisors/Foremen/women, Glass Occupations
- 6411 Industrial Glass Blowing Occupations
- 6412 Optical Instruments and Ophthalmic Mechanics Trade Occupations
- 6413 Glass Trade Occupations
- 6414 Apprentice Glass Products Occupations
- 6415 Trainee Occupations, Glass Products
- 6416 Inspecting, Testing and Grading Occupations, Glass Products
- 6417 Glass Machining Occupations
- 6419 Other Glassworking Occupations

6410 SUPERVISORS/FOREMEN/WOMEN, GLASS OCCUPATIONS

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in a variety of glass mixing, processing and forming operations and in grinding, polishing, hardening and fitting lenses.

**Entry Requirements** satisfactory completion of an appropriate apprenticeship in some cases, plus 3-10 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN; supervising activities of workers engaged in crushing, mixing, firing, processing, forming and stacking glass containers, and in grinding, polishing, hardening and fitting lenses.

6410-A SUPERVISOR/FOREMAN/WOMAN,  
GLASS PROCESSING OCCUPATIONS

Supervises and co-ordinates activities of workers engaged in crushing, mixing, firing, processing, forming and stacking glass containers (ware).

Perform duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.

- Day Supervisor/Foreman/woman, Glass
- Shift Supervisor/Foreman/woman, Glass
- Supervisor/Foreman/woman, Batch House
- Supervisor/Foreman/woman, Cold End (Glass)
- Supervisor/Foreman/woman, Furnace (Glass Processing)
- Furnace Supervisor/Foreman/woman (Glass Processing)
- Supervisor/Foreman/woman, Hot End (Glass)

Job Content Factors  
Workers

- FP: GE10y PSP4y(T)
- IP: E3-5y
- or FP: GE10y
- IP: T6m E6-10y
- HC: RAE
- RQ: Q2 U2 D2 V1

Materials	
SM: D2 I2 P2 T1	EQ: P1 S1 M1 K2 V2
Functions	
MA: A2 P1 D2 R2 M2 L2	
PA: P2 C2 S2 W2 B2 E2	SA: S2 L1 I2 B1 R2-4
Context	
EC: L4 C09,01,13	TC: A1 I2 T2
SS: 6	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 285

6410-B SUPERVISOR/FOREMAN/WOMAN,  
OPTICAL MACHINING

Supervises and co-ordinates activities of workers engaged in grinding, polishing, glazing and making impact resistant lenses.

Ensures upkeep of machines, orders materials for production and maintains production flow. Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.

- Supervisor/Foreman/woman, Contact Lenses
- Supervisor/Foreman/woman, Lens Glazers

Supervisor/Foreman/woman, Lens Surfacers

*Functions*

MA: I2 A2 P1 D2 R2 M2 L2

PA: P2 C2 S2 W2 E2

SA: S2 L1 I2 B1 R2-4

*Context*

EC: L1 C09,05,02

SS: 6

TC: A1 I2 T2

SC: 7 (vy)

LMS: NA (0 %SE)

ASIC: 285,334

*Job Content Factors*

*Workers*

FP: GE10y PSP4y(T)

HC: RIE

IP: E3-5y

RQ: Q2 U2 D2 V1

*Materials*

SM: D2 P2 T1

EQ: P1 S1 M1

## 6411 INDUSTRIAL GLASS BLOWING OCCUPATIONS

This unit group covers occupations concerned with conceiving form, developing specifications, and operating machines and working tools in the preparation and forming of glass.

**Entry Requirements** Year 9-10.

**Activities include** conceiving style and form of glass products by flowing and sculpturing semi-finished free-form glass objects into final form using blowpipes and hand tools; developing specifications for scientific apparatus; blowing and shaping glass tubing to form apparatus and components; and operating glass blowing lathe to join and shape glass tubing.

*Related Occupations*

Unit Group 3003

: Craft Occupations

### 6411-A GLASS BLOWER, MOLTEN TANK Glass Blower

Conceives style and form for desired object by flowing and sculpturing semi-finished free-form glass objects into final form using blowpipes and artisan's hand tools and equipment, or blows molten glass into standard shaped glassware, by performing any combination of the following duties.

Conceives shape for object. Observes batch of molten glass in melting tank to determine readiness for use in the production process, employing knowledge of glass characteristics. Dips end of blowpipe into molten glass tank to gather amount required. Blows through pipe to inflate gather (glob of molten glass) while rotating pipe manually to prevent sagging, maintain density and colour blending of glass, and to attain desired standard free-form shape and size. Passes on to trainee glass blower to semi-finish a production-run, or free-form a prototypic glass object. Reheats, shapes and forms individual parts of object to perceived extension and form, using specialised self developed artisan's hand tools. Draws, shapes and shears extended sections of object to proportion size and dimensions in relation to main body of object, using artisan's hand tools. Inserts gather into hinged mould before blowing when specific mould form, shape and size is required. Strikes neck of blown article with metal bar to detach from blowpipe. Assigns tasks and gives direction and training to trainee glass blowers.

May specialise in making particular objects and be designated accordingly, e.g.

Bottle Blower

Lightingware Blower

TV Tube Blower

*Job Content Factors*

*Workers*

FP: GE9-10y

HC: RAC

IP: T3-4y

RQ: Q1 V1

*Materials*

SM: D2 T1

EQ: P1 S1 M1

*Functions*

MA: A2 D2 R3 M3 L2

PA: P1 C1 H2 S1 W2 E2

SA: S1 L2 B2 R4

*Context*

EC: L1 C01,02,05

SS: 6

TC: A1 R2

SC: 7 (vy)

LMS: NA (0 %SE)

ASIC: 285

### 6411-B SCIENTIFIC GLASS APPARATUS BLOWER

Develops specifications for scientific apparatus, and blows and shapes glass tubing to form apparatus and components, such as flasks, stills, manifolds, evaporators, grinders, measuring instruments and vacuum pumps.

Examines sketches and drawings, and develops scientific apparatus to meet requirements. Correlates specifications with knowledge of effects of heat, vacuum and corrosive chemicals, to determine type of glass to be used. Heats glass tubing to viscous conditions using gas flame. Blows and draws heated tubing into specified forms, using compressed air or own breath, and hand tools. Shapes, bends or joins sections of formed tubing, using glassworker's tools, and continues blowing to ensure bends and joints have correct thickness and diameter and to obtain invisible joints. Measures product to verify dimensions, using micrometers, callipers and rule. Assigns tasks and gives directions and training to trainees.

May insert metal flanges, tubes and wires into molten glass forms. May heat and shape glass around metal components to anneal glass to metal, using glassworker's tools. May heat, join and shape glass tubing according to specifications using glass blowing lathe.

*Job Content Factors*

*Workers*

FP: GE9-10y

HC: ARC

IP: T6y

RQ: Q1 V1

*Materials*

SM: D2 I2 T1

EQ: P1 S1 M1

*Functions*

MA: A2 P2 D2 R2 M2 L2

PA: P1 C1 S1 W2 E2

SA: S1 L2 B2 R4

*Context*

EC: L1 C01,09,13  
SS: 6

TC: A1  
SC: V

LMS: 70 (0 %SE)

ASIC: 285

**6411-C GLASS BLOWING LATHE OPERATOR**

Joins and shapes glass tubing according to specifications, using glass blowing lathe.

Reads work order to determine mandrels and glass parts required to meet specifications. Selects, inserts and clamps mandrels in head and tailstock of lathe, using wrenches. Selects, inserts and clamps glass parts to be joined or shaped in chucks, using mallet and wrenches. Turns controls to start lathe and adjust rotation speed. Lights fixed jets and hand torches, and turns gas valves to adjust height and colour of flames and obtain specified temperature. Turns handwheels to move head and tailstock and bring workpiece in contact with flames. Blows through hose connected to centre of chuck to maintain pressure within tube or to shape workpiece. Selects and manipulates spatula, hand torches and tips and glass rods to shape, seal, splice, imbed and weld rotating parts according

to specifications. Anneals joined or shaped areas using hand torch and fixed jets. Turns handwheels to move head and tailstock and stretch or separate heated workpiece to specifications.

May move glass tube over flame manually and blow it into shape. May develop specifications for scientific glass apparatus and perform additional duties of 6411-B SCIENTIFIC GLASS APPARATUS BLOWER.

*Job Content Factors**Workers*

FP: GE9-10y  
HC: ARC

IP: T6y  
RQ: Q1 V1

*Materials*

SM: D1 T1

EQ: P1 S1 M1

*Functions*

MA: A2 P2 D2 R3 M3 L2

PA: P1 C1 H2 S1 W2 E2

SA: S1 L2 B2 R4

*Context*

EC: L1 C09,01,04  
SS: 4

TC: A1 T2  
SC: 6 (vy)

LMS: 30-40 (0 %SE)

ASIC: 285

## 6412 OPTICAL INSTRUMENTS AND OPHTHALMIC MECHANICS TRADE OCCUPATIONS

This unit group covers trade occupations in the optical and ophthalmic industry.

**Entry Requirements** satisfactory completion of an apprenticeship in optical mechanics, optical instrument making or a related area.

**Activities include** operating machines to surface lenses to prescription requirements, to fit lenses to spectacle frames or to grind and polish lenses, mirrors and prisms for optical instruments.

**6412-A PRECISION GRINDER**

Operates machines to grind and polish lenses, mirrors and prisms for optical instruments and inspects finished product.

Locates optical centre of precision instrument lenses and tends machine that grinds lens edge concentric with the optical axis. Inspects finished product. Utilises good knowledge of abrasives for the fine work and extremely fine manufacturing tolerance involved.

*Job Content Factors**Workers*

FP: GE10y PSP4y(T)  
HC: RIC

IP:  
RQ: U2 D2 V1

*Materials*

SM: D2 T1

EQ: P1 S1 M1

*Functions*

MA: I2 D2 R3 M2 L2

PA: P1 U2 C1 H2 S2 W2 E1

SA: S1 L2 B2 R4

*Context*

EC: L1 C09,05,02  
SS: 4

TC: A1 R2  
SC: 6 (4 y)

LMS: 40-100 (0 %SE)

ASIC: 285,334

## 6412-B OPHTHALMIC LENS SURFACER AND FITTER

**Optical Glass Worker; Optical Mechanic**

Operates machines to grind and polish lenses, to surface lenses to meet prescription requirements, and to fit lenses to spectacle frames.

Locates and marks axis and optical centre on lens blank, makes calculations in order to grind lens to specifications and sets machines to do so. Shapes and fits lenses to spectacle frames, inspects finished product, and repairs broken spectacles.

May specialise in lens surfacing or lens glazing.

*Job Content Factors**Workers*

FP: GE10y PSP4y(T)  
HC: RCI

IP:  
RQ: U2 D2 V1

*Materials*

SM: D2 T1

EQ: P1 S1 M1

*Functions*

MA: I2 D2 R3 M2 L2

PA: P1 U2 C1 H2 S2 W2 E2

SA: S1 L2 B2 R4

*Context*

EC: L1 C09,05,02  
SS: 4

TC: A1 R2  
SC: 6 (4 y)

LMS: 900-1100 (0 %SE)

ASIC: 285,334

### 6413 GLASS TRADE OCCUPATIONS

This unit group covers trade occupations concerned with the manufacture of glass products.

**Entry Requirements** satisfactory completion of an apprenticeship in glazing or a related area, or at least 2 years' experience in some cases.

**Activities include** preparing and installing glass in buildings and furniture; and sandblasting, glass silvering, leadlight glazing, bevel cutting, and glass embossing and bending.

#### 6413-A GLAZIER

Cuts, fits and installs mirrors and all types of glass in windows, skylights and display cases or on surfaces, such as buildings, interior walls and ceilings.

Measures and marks outline or pattern on glass, and cuts glass, using glass cutter. Inserts sealing bed for glass panels being set in wood or metal sash. Sets glass panes and mirrors into sash, seals with tape or other sealer and secures glass in position, using points, clips or moulding. Assembles parts of glass prefabricated units for buildings, such as revolving doors, display cases and shower enclosures, and bolts parts together.

May install metal window and door frames into which glass panels are to be fitted. May be designated according to type of glass installed, e.g.

Glass Installer                      Glazier, Structural Glass  
Plate Glass Installer

##### Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
HC: RAI	RQ: L1 U2 V2
<b>Materials</b>	
SM: D2 T1	EQ: P2 S1 M1 V1
<b>Functions</b>	
MA: A2 D2 R3 M2 L3	
PA: P1 U2 C1 H2 W1 B2 E4	SA: S1 L2 I2 B2 R4
<b>Context</b>	
EC: M2 L4 C09,13,12	TC: A1 I1 T1
SS: 6	SC: 7 (4 y)
LMS: NA (30%SE)	ASIC: 285

#### 6413-B BEVELLER

Operates hand-held machinery and/or automatic fixed machinery or holds glass against horizontal rotating grinding or bevelling wheels to smooth and shape rough edges of cut glass. Smooths edges of cut glass so that glass is safe to handle and for decorative reasons on mirrors and glass faced cabinets.

May operate a hand-held tool which is moved against resting glass, or hold glass at changing angles against horizontal rotating grinding or bevelling wheels.

##### Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
HC: RI	RQ: D2 V2
<b>Materials</b>	
SM: D2 T1	EQ: S1 M1
<b>Functions</b>	
MA: A2 D2 R3 M3 L3	
PA: P2 U1 C2 H2 W1 E3	SA: S1 L2 B2 R4
<b>Context</b>	
EC: L1 C13,09	TC: A1 R2
SS: 6	SC: 7 (4 y)
LMS: NA (0 %SE)	ASIC: 285

#### 6413-C GLASS CUTTER, SKILLED

Measures and cuts large glass sheets to size for retail purposes, or for builders and glaziers.

Lays sheet of glass on padded table or in jig. Places pattern on or under glass, or measures and marks glass for cutting. Examines and marks defective glass to obtain best cut. Scores glass surface around pattern or along straight edge, using cutting tool. Breaks off required sheet or excess glass with notched tool or glass pliers, or directs other workers to break glass.

May smooth rough edges, using belt sander or smoothing wheel.

##### Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
HC: RIE	RQ: D2 V1
<b>Materials</b>	
SM: D2 T1	EQ: P2 S1 M2 W2
<b>Functions</b>	
MA: I2 D2 R3 M3 L3	
PA: P1 U2 C1 H2 W1 E3	SA: S1 L2 B2 R4
<b>Context</b>	
EC: L1 C13,09	TC: A1 I2
SS: 6	SC: 7 (na)
LMS: NA (0 %SE)	ASIC: 285

#### 6413-D GLASS BENDER Neon-Sign Bender

Heats and bends glass tubing to form scroll of neon signs, fits electrodes to tubes and pumps inert gas into tubing, according to specifications.

Secures asbestos pattern to workbench. Selects glass tubing of specified diameter and colour, and cuts tubing to required length using ruler and file. Places glass tube on pattern and marks bend locations, using chalk. Places cork stop into one end of tubing and rubber hose over opposite end. Lights torch, adjusts flame for optimum temperature, applies flame to tubing and rotates tube to obtain uniform heating. Blows into hose to prevent collapse of tubing and applies manual pressure to bend tubing. Superimposes bent tubing over asbestos pattern to verify accuracy. Fuses electrodes into ends of formed tubing, using torch. Fuses glass tube to admit inert gas on to scroll and glass traps to contain mercury. Consults specification to determine gas to be used and colour of tubing. Starts roughing pump (used for preliminary low vacuum pumping) to remove air and moisture from tube, and adds mercury to glass traps when specified. Connects electrical supply to electrodes, switches on supply and increases voltage gradually, using control to remove moisture and air. Connects high vacuum pump to tube, starts pump and shuts off when required vacuum is obtained. Connects gas cylinder to glass tube to admit specified gas and disconnects trap (used with certain gas) to release mercury into tube. Seals tubing, using torch, and connects to high voltage supply to age scroll.

May specialise in a specific glass bending activity and be designated accordingly, e.g.  
Neon-Sign Pumpman/woman  
Neon-Tube Bender

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
or FP: GE9-10y	IP: T12-18m E2y
HC: RAI	RQ: U2 D2 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: A2 D2 R3 M2 L2	
PA: P1 U2 C1 H1 W1 E3	SA: S2 L2 B2 R4

Context

EC: L1 C13,10,02	TC: A1
SS: 6	SC: 7 (vy)
LMS: NA (10%SE)	ASIC: 285

6413-Z GLASS TRADE OCCUPATIONS nec

This residual group covers glass trade occupations not elsewhere classified in Unit Group 6413, e.g.  
Glass Embosser                      Glass Silverer  
Leadlight Glazer                      Sandblaster  
Stained Leadlighter

6414 APPRENTICE GLASS PRODUCTS OCCUPATIONS

This unit group covers apprentice occupations concerned with the forming of glass products.  
**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.  
**Activities include** performing duties as described under Master Title APPRENTICE.

6414-A APPRENTICE FLAT GLASS TRADESPERSON

Receives instruction and training in flat glass working.  
Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

Job Content Factors

<i>Workers</i>	
FP: GE10y	IP:
HC: R1	RQ: D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: D3 R3 M2 L3	
PA: P1 U2 C1 H1 W1 B2 E4	SA: S1 L2 I2
<i>Context</i>	
EC: L1 C13,09,12	TC: A1 I1 R2 T2
SS: 1	SC: 4 (4 y)
LMS: NA (0 %SE)	ASIC: 285

6414-B APPRENTICE GLASS BENDER

Receives instruction and training in glass bending.  
Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

Job Content Factors

<i>Workers</i>	
FP: GE10y	IP:
HC: RAI	RQ: U2 D2 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: P1 U2 C1 H1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C13,10,02	TC: A1 R2
SS: 1	SC: 4 (4 y)
LMS: NA (0 %SE)	ASIC: 285

6415 TRAINEE OCCUPATIONS, GLASS PRODUCTS

This unit group covers trainee occupations in glass products forming.  
**Entry Requirements** Year 9-10.  
**Activities include** receiving instruction in glass products forming.

6415-A            **TRAINEE GLASS BLOWER, MOLTEN TANK**

Blows molten glass into shape or semi-finished free-form object, using a blowpipe.

Receives gather (gob of molten glass) on blowpipe from glass blower. Blows into pipe to inflate gather while rotating to form basically desired shape, thickness, colour, density, shading and size of object. Manipulates, rotates and positions pipe in relation to weight of gather to shape sides and bottom of object in accordance with prototype. Attaches appropriately shaped punty (iron rod) to end of semi-finished glass object for reheating and final shaping.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE9y	IP: T3-6y
HC: RAC	RQ: Q1 V1
<i>Materials</i>	
SM: D2 T1	EQ: P1 S1 M1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: P1 U2 C1 H2 S2 W2 E2	SA: S1 L2
<i>Context</i>	
EC: L1 C01,09,13	TC: A1 R2
SS: 1	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 285

6416    **INSPECTING, TESTING AND GRADING OCCUPATIONS, GLASS PRODUCTS**

This unit group covers occupations concerned with inspecting, testing and grading glass.

**Entry Requirements** Year 9-10.

**Activities include** testing glass containers for conformity with physical specifications and inspecting glassware under spotlights in order to detect defects in glass; and performing capacity checks, verifying size, thickness, thermal shock resistance, and pressure strength.

6416-A            **GLASSWARE VERIFIER**

Examines, on a continuous basis, ware produced by each lehr (furnace).

Determines by visual and other checks if any cavity (mould) is producing sub-standard ware and, if so, rejects ware, halts production and arranges for cavity to be replaced. Performs capacity checks using a volume comparator or by filling ware sample with measured amount of water. Verifies size and thickness of ware, using instruments such as callipers, micrometers and gauges. Operates polariscope to ensure ware meets annealing standards. Immerses container alternately in baths of hot and cold water at specified temperature to determine thermal shock resistance. Fills ware with water and inserts electrically controlled plunger to determine pressure strength. Cuts across section from ware, using abrasive wheel. Examines cross section under microscope for defects such as cracks, bubbles and thinness of walls. Takes static chloride readings. Records and compares test data with specifications. Compiles hourly efficiency and status reports and production statistics at end of shift.

May specialise in particular verification checking and be designated accordingly, e.g.

Audit Verifier, Glassware            Tester, Glassware  
Lehr Attendant Verifier, Glassware  
Process Quality Control Verifier, Glassware

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE9-10y	IP: T18-24m
HC: IRC	RQ: D2 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S1 M2
<i>Functions</i>	
MA: A1 D2 R3 M3 L2	
PA: P1 U2 C2 S2 W2 B2 E2	SA: S2 L2 B2 R4-3
<i>Context</i>	
EC: L1 C13,09,04	TC: A1 I2 T2
SS: 5	SC: 6 (2 y)
LMS: NA (0 %SE)	ASIC: 285

6417    **GLASS MACHINING OCCUPATIONS**

This unit group covers occupations concerned with glass machining.

**Entry Requirements** Year 9-10.

**Activities include** tending automatic scales and machines which weigh, mix, condition, melt and fuse ingredients to make glass; setting up, adjusting and repairing automatic machines and equipment that forms or shapes glass products; and assisting in the operation of glass production and forming machines.

**6417-A GLASSWARE MAKER**

Sets up, adjusts and repairs automatic feeding, flowing and forming machines and equipment that form bottles and other glass products from molten glass.

Reads set-up instructions to determine machine parts and mechanical adjustments required. Installs moulds and mould components, such as plungers and bottom plates, and replaces cams on machines, using hand tools. Adjusts duct orifices to control size of molten glass gob fed to mould. Adjust valves on furnace to regulate temperature of molten glass according to specifications and production requirements. Changes Lehr conveyor gears and rheostats according to specifications to control annealing time or formed glassware. Sets cams and pusher bars that control ejection of sub-standard products. Measures glass products to verify that machines produce according to specifications, using callipers and gauges. Repairs and adjusts machines while in operation, using hand tools, callipers and gauges. Allocates assignments and directs activities of helpers. Prepares reports on set-up and repairs, performed or contemplated.

**Job Content Factors**

<b>Workers</b>	
FP: GE9-10y	IP: T12-18m
HC: RIE	RQ: D2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P1 S1 M1
<b>Functions</b>	
MA: A2 D2 R3 M3 L2	
PA: P1 U2 C1 W1 E3	SA: L1 B1 R4
<b>Context</b>	
EC: L1 C,09,01,04	TC: A1 I1 T2
SS: 6	SC: 6 (0y)
LMS: NA (10%SE)	ASIC: 285

**6417-B GLASS MELT OPERATOR**  
**Glass Batcher; Glass Batchman/woman; Glass Furnace Controlman/woman; Glass Furnaceman/woman; Glass Furnace Operator; Glass Maker**

Tends automatic scales, cullet (waste glass) crushing machine, batch mixing and other equipment to weigh, mix, condition, melt and fuse ingredients to make glass, according to specifications or formulae, by performing any combination of the following duties.

Weighs ingredients, such as lime, sand, soda ash and cullet, using automatic or other scales. Dumps, pours, pumps or shovels ingredients on to conveyor or in to hopper of mixing or batching machine. Adjusts controls to admit specified amounts of ingredients into mixing machine. Starts machine agitators to mix material for specified period. Adds ingredients during mixing period to attain required consistency of formulae. Stops machine when mixing process is complete. Transfers mixture from machine bin to glass furnace manually or by mechanical means, such as conveyors and pumps. Cleans machine preparatory to subsequent runs. Removes samples of mixture and submits to laboratory for testing. Observes panel lights and audio signals, and pushes button of automatic machine that weighs ingredients to regulate quantity released into mixing machine according to computer program. Activates by-pass mechanism when specified amounts of ingredients have entered weigh hopper and are automatically discharged into rotating mixing machine. Changes controls from automatic to manual operation when required. Opens chute to discharge by-passed ingredients on to scales and in to mixer when specified weight is attained. Records weight of ingredients in each batch, and pulls lever to start bucket conveyor to replenish ingredients in bins. Weighs and adds specified quantities of additives, such as carbon, salt cake, pyrites, arsenic, or dye requirements using scale. Starts conveyor to transfer cullet from storage bin to crusher. Starts, observes and regulates crusher grinding cullet to specified fineness. Regulates water spray on conveyor screen to cool cullet leaving crusher. Starts conveyor transferring cullet to storage bins. Observes gauges to

determine level of molten glass in furnace. Adjusts controls to regulate flow of mixture of ingredients. Observes meters, gauges and charts to determine air, fuel and water pressure, and air-fuel ratio. Determines furnace temperature, using pyrometer. Turns valves to control water, air and fuel feed to maintain specified furnace combustion, temperature and pressure. Ensures operation of automatic switch that reverses fire from one side of regenerative chamber to other side to equalise heat in furnace. Collects samples of molten glass for laboratory analyses. Examines glass for colour and texture defects indicating equipment malfunction. Examines furnace walls for worn spots and leaks, identifies and reports on furnace temperature and equipment malfunctions, and prepares written reports.

May operate front end loader to transfer raw materials to storage bins.

**Job Content Factors**

<b>Workers</b>	
FP: GE9-10y	IP: T6m
HC: RC	RQ: Q2 D2 V2
<b>Materials</b>	
SM: D2 T1	EQ: P2 N2 M1 K2
<b>Functions</b>	
MA: I2 P2 D2 R3 M3 L2	
PA: P1 U2 C1 H2 W1 E4	SA: S1 L2 B2 R4
<b>Context</b>	
EC: L1 C02,09,01	TC: A1 I2 T2
SS: 5	SC: 6 (2 y)
LMS: NA (0 %SE)	ASIC: 285,288

**6417-C GLASSWARE PROCESS OPERATOR**  
**Glassware Machine Attendant**

Operates and controls automatic machines that press or blow molten glass in moulds to form or shape containers such as bottles, jars and drinking glasses, performing any combination of the following duties.

Positions and bolts cast-iron moulds to machine hanger arms as directed, using wrenches. Positions and clamps machine fixtures, such as plungers, plunger pins, neck rings, and air and gas hoses, to facilitate forming function of moulds, using fixed gauges and hand tools. Bolts specified delivery chutes and transfer arms in position on machine to guide and move gobs of molten glass from forehearth through machine processes. Adjusts set screws and air valves to control opening and closing moulds. Adjusts thermostatic control to regulate temperature of molten glass in forehearth according to specifications. Adjusts valve to regulate feed of air pressure to moulds in glass blowing machine. Adjusts control to regulate timing of plunger in glass-pressing machine. Adjusts controls to regulate mould temperatures and turntable rate. Adjusts flow valve and shear timer to regulate delivery rate, weight and shape of gob delivered from feeder into moulds, according to specifications. Adjusts dampers to control flow of air to cool mould equipment and glassware. Presses switch to start machine. Observes operation of machine to verify co-ordination of functions. Sprays or swabs moulds, feeder chutes and baffle plates periodically with oil solution to prevent adhesion of glass. Weighs, measures and inspects production sample to assess conformity with specifications, using scales, gauges and visual verification. Adjusts valves and controls to correct deviations from specifications. Lubricates and cleans machine at specified intervals. Gives assignments and directions to helper.

**Job Content Factors**

<b>Workers</b>	
FP: GE9-10y	IP: T3m
HC: R	RQ: D2 V1
<b>Materials</b>	
SM: D2 T1	EQ: P2 S1 M1 K2 W2
<b>Functions</b>	
MA: A2 D3 R4 M3 L3	
PA: P2 U1 C1 H2 W1 B2 E3	SA: L1 B2 R4

<i>Context</i>	
EC: L1 C09.01.04	TC: A1 I1 R2 T2
SS: 6	SC: 7 (2 y)
LMS: NA (0 %SE)	ASIC: 285

**6417-D GLASSWARE PROCESS ASSISTANT**

Assists process operator to set up, adjust and repair automatic feeding, flowing and forming machines and equipment that form bottles and other glass products from molten glass. Transfers moulds to and from mould shop. Assists process operator to remove and replace glass blanks (moulds) and components and adjust gob (molten glass) shears and furnace channel openings according to instructions, using hand tools. Lubricates machines and equipment using oil can. Cleans stationary plant and equipment using hand tools, chemical reagents and steam. Under supervision, training and direction of process operator, performs swabbing of machine blanks, moulds, feeder chutes and baffle plates, checks weights of ware and learns duties of operator positions.

May operate applied pigment, decorating or labelling machines. May assist welders, fitters and turners by hand cleaning and machine sand blasting metal bottle moulds in glass factories and be designated accordingly,  
Glass Mould Cleaner

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE9-10y	IP: T2-4w
HC: R	RQ: D2 V1
<i>Materials</i>	
SM: T1	EQ: S1 M1 W2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 H1 W1 B2 E3	SA: L1
<i>Context</i>	
EC: L1 C09.01.04	TC: A1 I1 R2
SS: 4	SC: 5 (2 y)
LMS: NA (0 %SE)	ASIC: 285

**6419 OTHER GLASSWORKING OCCUPATIONS**

This residual unit group covers occupations not elsewhere classified in Minor Group 641.  
**Activities include** processing and machining flat glass or optical or spectacle lenses.

**6419-Z GLASSWORKING OCCUPATIONS nec**

This residual group covers other glassworking occupations, not elsewhere classified in Minor Group 641, e.g.  
Contact Lens Surfacing Technician

Laboratory Assistant, Optical Lens  
Lens Blank Marker  
Lens Turning Machine Operator  
Optical Element Coater  
Optical Glass Etcher

## **MAJOR GROUP 65**

### **FOOD PROCESSING OCCUPATIONS**

Food Processing Occupations are classified in the following minor groups.

- 650 General Food and Beverage Processing Occupations
- 651 Meat Processing Occupations
- 652 Field Crops Product Processing Occupations
- 653 Dairy Product Processing Occupations
- 654 Fruit and Vegetable Processing Occupations

#### *Related Occupations*

Minor Group 423 : Food and Beverage Preparation and Related Service Occupations

N.B. It should be noted that occupations in Minor Group 650 are concerned with the processing of food products which are derived from a variety of food types and with general processes which may be performed on a range of food products, while occupations in the remaining minor groups are unique to the processing of the particular food product(s) concerned.

# 65 FOOD PROCESSING OCCUPATIONS

## 650 GENERAL FOOD AND BEVERAGE PROCESSING OCCUPATIONS

### 6500 SUPERVISORS, GENERAL FOOD AND BEVERAGE PROCESSING OCCUPATIONS

6500-A Supervisor, General Food Processing Occupations  
6500-B Supervisor, Beverage Processing Occupations

### 6501 CONFECTIONERY TRADE OCCUPATIONS

6501-A Skilled Confectioner

### 6502 APPRENTICE CONFECTIONERY TRADE OCCUPATIONS

6502-A Apprentice Confectioner

### 6503 BEVERAGE PROCESSING AND RELATED OCCUPATIONS (NON- DAIRY)

6503-A Distiller (Beverages)  
6503-B Brewhouse Operator  
6503-C Brewery Cellar Operator  
6503-D Cellarhand, Winery  
6503-E Soft Drink Mixer  
6503-F Fruit and Vegetable Juicer Operator  
6503-Z Beverage Processing and Related Occupations (Non-Dairy) nec

### 6504 GENERAL FOOD PROCESSING MACHINE OPERATORS

6504-A General Food Processing Machine Operator  
6504-B Foods Extruder Operator  
6504-C Retort Operator  
6504-D Syrup Maker  
6504-E Can Filler and Closer Operator  
6504-F Frozen Foods Operator  
6504-G Margarine Maker  
6504-H Food Packaging Machine Operator

### 6505 FOOD PROCESSING AND RELATED QUALITY CONTROL OCCUPATIONS

6505-A Meat Grader  
6505-B Fruit and Vegetable Classifier  
6505-C Quality Control Assistant (Food and Related Products)

### 6509 OTHER GENERAL FOOD AND BEVERAGE PROCESSING OCCUPATIONS

6509-A Confectioner

## 651 MEAT PROCESSING OCCUPATIONS

### 6510 SUPERVISORS, MEAT AND RELATED PROCESSING OCCUPATIONS

6510-A Supervisor, Slaughtering, Meat Cutting and Curing Occupations

### 6511 MEAT TRADE AND RELATED OCCUPATIONS

6511-A Retail Butcher  
6511-B Non-Retail Butcher  
6511-C Smallgoods Maker  
6511-D Slaughterman/woman

### 6512 APPRENTICE MEAT TRADE OCCUPATIONS

6512-A Apprentice Butcher  
6512-B Apprentice Smallgoods Maker  
6512-C Apprentice Slaughterman/woman

### 6513 MEAT PROCESSING MACHINE OPERATORS

6513-A Smallgoods Processing Equipment Operator  
6513-B Defeatherer/Eviscerator Operator  
6513-C Poultry Saws Operator  
6513-D Casings Worker  
6513-E Fish Cooker  
6513-F Fish Plant Operator  
6513-G Meat By-Products Machine Operator  
6513-Z Meat Processing Machine Operators nec

### 6514 BASIC PROCESSING OCCUPATIONS, MEAT PRODUCTS

6514-A Meatworks Labourer, Knife  
6514-B Meat Cutter  
6514-C Meat Boner  
6514-D Meat Slicer  
6514-E Poultry Boner  
6514-F Poultry Processing Worker  
6514-G Fish Filleter  
6514-H Fish Process Worker  
6514-Z Basic Processing Occupations, Meat Products nec

## 652 FIELD CROPS PRODUCT PROCESSING OCCUPATIONS

### 6520 SUPERVISORS, FIELD CROPS PRODUCT PROCESSING OCCUPATIONS

6520-A Supervisor, Breadmaking and Pastrycooking Occupations  
6520-B Supervisor, Grain Milling Occupations  
6520-C Supervisor, Sugar Milling and Refining Occupations  
6520-Z Supervisors, Field Crops Product Processing Occupations nec

### 6521 BREADMAKING, MILLING AND PASTRYCOOKING TRADE AND RELATED OCCUPATIONS

6521-A Pastrycook  
6521-B Baker  
6521-C Grain Miller  
6521-D Stockfeed Miller  
6521-E Biscuitmaker

### 6522 APPRENTICE BREADMAKING, MILLING AND PASTRYCOOKING TRADE OCCUPATIONS

6522-A Apprentice Pastrycook  
6522-B Apprentice Baker  
6522-C Apprentice Cereal Miller

### 6523 BREADMAKING AND PASTRYCOOKING ASSISTANT OCCUPATIONS

6523-A Assistant Pastrycook  
6523-B Assistant Baker

### 6524 FIELD CROPS PRODUCT PROCESSING MACHINE OPERATORS

6524-A Cereal Milling Machine Operator  
6524-B Stockfeed Milling Machine Operator  
6524-C Oilseed Processing Operator  
6524-D Sugar Boiler  
6524-E Sugar Processing Machine Operator  
6524-F Maltster  
6524-G Breakfast Cereal Maker  
6524-H Technical Operator, Tobacco Products Manufacturing  
6524-I Machine Attendant, Tobacco Processing and Tobacco Products Manufacturing  
6524-Z Field Crops Product Processing Machine Operators nec

### 6525 BASIC FIELD CROPS PRODUCT PROCESSING OCCUPATIONS

6525-A Bread Room Hand  
6525-B Biscuit Processer  
6525-Z Basic Field Crops Product Processing Occupations nec

## 653 DAIRY PRODUCT PROCESSING OCCUPATIONS

### 6530 SUPERVISORS, DAIRY PRODUCT PROCESSING OCCUPATIONS

6530-A Supervisor, Dairy Product Processing Occupations

### 6531 DAIRY TRADE AND RELATED OCCUPATIONS

6531-A Buttermaker  
6531-B Cheesemaker

### 6532 APPRENTICE DAIRY TRADE OCCUPATIONS

6532-A Apprentice Buttermaker  
6532-B Apprentice Cheesemaker

### 6533 DAIRY PRODUCT PROCESSING MACHINE OPERATORS

6533-A Milk Treater  
6533-B Evaporator/Spray Dryer Operator  
6533-C Ice Cream Maker  
6533-Z Dairy Product Processing Machine Operators nec

### 6534 BASIC DAIRY PRODUCT PROCESSING OCCUPATIONS

6534-A Dairy Factory Worker  
6534-B Egg Process Worker  
6534-Z Basic Dairy Product Processing Occupations nec

## 654 FRUIT AND VEGETABLE PROCESSING OCCUPATIONS

### 6540 SUPERVISORS, FRUIT AND VEGETABLE PROCESSING OCCUPATIONS

6540-A Supervisor, Fruit and Vegetable Processing Occupations

### 6541 FRUIT AND VEGETABLE PROCESSING MACHINE OPERATORS

6541-A Jam and Sauce Cook  
6541-B Fruit and Vegetable Machinery Operator

### 6542 BASIC FRUIT AND VEGETABLE PROCESSING OCCUPATIONS

6542-A Fruit and Vegetable Processer  
6542-Z Basic Fruit and Vegetable Processing Occupations nec

**MINOR GROUP 650**  
**GENERAL FOOD AND BEVERAGE PROCESSING OCCUPATIONS**

General Food and Beverage Processing Occupations are classified in the following unit groups.

- 6500 Supervisors, General Food and Beverage Processing Occupations
- 6501 Confectionery Trade Occupations
- 6502 Apprentice Confectionery Trade Occupations
- 6503 Beverage Processing and Related Occupations (Non-Dairy)
- 6504 General Food Processing Machine Operators
- 6505 Food Processing and Related Quality Control Occupations
- 6509 Other General Food and Beverage Processing Occupations

**6500 SUPERVISORS, GENERAL FOOD AND BEVERAGE PROCESSING OCCUPATIONS**

This unit group covers supervisory occupations concerned with processing food and beverage products which are derived from a variety of food types.

**Entry Requirements** Year 10 plus 2-4 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**6500-A SUPERVISOR, GENERAL FOOD PROCESSING OCCUPATIONS**

Supervises and co-ordinates activities of workers engaged in the processing of food products which are derived from a variety of food types and in general processes which may be performed on a range of food products.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.

- Chocolate Supervisor
- Confectionery Supervisor

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP: T1y E2-4y
HC: RIE	RQ: U2 D1 V1 A1
<i>Materials</i>	
SM: D2 P1 T2	EQ: M2
<i>Functions</i>	
MA: P1 D2 R2 M3 L2	
PA: S2 W2 E2	SA: S1 L2 I1 B1 R2-4
<i>Context</i>	
EC: L1 C08,09	TC: A1 T2
SS: 4	SC: 6 (na)

LMS: NA (0 %SE)                      ASIC: 218

**6500-B SUPERVISOR, BEVERAGE PROCESSING OCCUPATIONS**

Supervises and co-ordinates activities of workers engaged in processing non-dairy beverage products such as soft drinks, fruit juices, beer, wine and spiritous liquor.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.

- Brewery Supervisor
- Distillery Supervisor
- Winery Supervisor
- Soft Drinks Making Supervisor
- Cordial Making Supervisor
- Liqueur Making Supervisor

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP: T2y E2-4y
HC: RIE	RQ: U2 D1 V1 A1
<i>Materials</i>	
SM: D2 P1 T2	EQ: M2
<i>Functions</i>	
MA: P1 D2 R2 M3 L2	
PA: S2 W2 E2	SA: S1 L2 I1 B1 R2-4
<i>Context</i>	
EC: L1 C08,09	TC: A1 T2
SS: 4	SC: 6 (na)

LMS: NA (0 %SE)                      ASIC: 218

### 6501 CONFECTIONERY TRADE OCCUPATIONS

This unit group covers confectionery trade occupations.

**Entry Requirements** a trade qualification in confectionery or Year 10 plus 4 years' experience.

**Activities include** weighing, mixing and cooking ingredients; performing a variety of duties to produce and wrap sweets; and directing apprentices and other workers.

#### 6501-A SKILLED CONFECTIONER

Mixes raw materials, and cooks and shapes all kinds of confectionery.

Receives production schedule for confectionery and quantities required. Checks cleanliness and operation of equipment before production run. Weighs and mixes batches of ingredients according to recipes, and controls temperature and vacuum in boilers to make low and high boiled sweets in bulk. Cools, folds, coats, slices, presses, twists, pulls, moulds and wraps sweets using machines or by hand. Operates equipment which makes chocolate from beans, refines and tempers chocolate and operates enrobing and moulding machines. Directs apprentices and other workers assisting with routine duties.

May consult supervisor about changes to recipes and supply of ingredients. May specialise in production of certain kinds of confectionery.

##### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T) or FP: GE10y HC: RAC	IP: IP: E4y RQ: Q2 D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 M1 W2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2 PA: U1 C1 H1 W1 E3	SA: S1 L2 I2 B2 R4
<i>Context</i>	
EC: L1 C01,09 SS: 5	TC: A1 I2 R2 SC: 5 (na)
LMS: NA (10%SE)	ASIC: 2173

### 6502 APPRENTICE CONFECTIONERY TRADE OCCUPATIONS

This unit group covers apprentice confectionery trade occupations.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

#### 6502-A APPRENTICE CONFECTIONER

Receives instruction and training in the trade of confectionery making.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

##### Job Content Factors

<i>Workers</i>	
FP: GE10y HC: RCA	IP: RQ: Q2 D2 V1

##### Materials

SM: D2 T1	EQ: S1 M1 W2
<i>Functions</i>	
MA: D3 R4 M3 L3 PA: U1 C1 H1 W1 E3	SA: S1 L2 I2
<i>Context</i>	
EC: L1 C01,09 SS: 1	TC: A1 I2 R2 SC: 3 (4 y)
LMS: NA (0 %SE)	ASIC: 2173

6503 BEVERAGE PROCESSING AND RELATED OCCUPATIONS (NON-DAIRY)

This unit group covers occupations concerned with the production of non-dairy beverages and related products.

Entry Requirements Year 10-11 plus up to 2 years' experience.

Activities include operating, and supervising the operation of, a variety of plant and processes in order to make alcoholic beverages, soft drinks and fruit and vegetable juices.

6503-A DISTILLER (BEVERAGES)  
Distillation Manager; Stillman/woman

Controls the operation of distillation plant to produce alcohol from fermented stock.

Receives production schedule and takes over from previous shift distiller. Checks feed tank levels, supply and flow rate of liquid stock to distillation columns and switches supply as specified. Monitors gauges and sight glasses, and adjusts temperatures, still pressure and flow rates through heat exchangers. Controls flow of refluxing liquids to distillation columns, and cooling water to condensers to produce output of specified alcohol levels to storage tanks. Controls equipment to remove oils from spent wash and directs them to storage vessels or stabilising ponds. Keeps production records, maintains fire and safety equipment, and advises supervisor of production problems. Performs maintenance or cellarhand duties when distillation plant is closed down.

May start up a continuous still requiring constant adjustment of heat and flow rates of stock and cooling water to achieve specified products at a stable flow rate. May perform smell or other tests on samples. May operate a pot still (batch process) or simpler fermented marc still, or assist in distillation process and be designated accordingly, e.g.

Pot Still Operator                      Marc Still Operator  
Loftsman/woman (Distillery)    Relief Stillman/woman

Job Content Factors	
Workers	
FP: GE10-11y	IP: T3-6m E1-2y
HC: RCI	RQ: S1 Q2 V2
Materials	
SM: D2 T1	EQ: P2 S1 M1
Functions	
MA: P2 D2 R2 M3 L2	
PA: P2 U1 H1 S2 W2 B2 E2	SA: S1 B2 R4
Context	
EC: L3 C01,12,02	TC: A2 S1 I1
SS: 3	SC: 4 (3 y)
LMS: NA (0 %SE)	ASIC: 218,2171

6503-B BREWHOUSE OPERATOR  
Process Operator, Brewery

Operates equipment to grind grain and mix and cook ingredients to make mash and prepare wort for making beer, performing any combination of the following duties.

Operates control panel to receive raw materials and direct their flow into appropriate silos. Activates controls to start malt mills and conveyors and to weigh requisite amounts of milled grain (grist). Monitors the automatic transfer of grist to containers above mash vessel and cereal cooker. Initiates brewing cycle by activating controls for mashing. Conducts mashing operation according to predetermined temperature and time specifications. Removes samples of mash as required to determine degree of saccharification. Monitors process by inspection of pressure, temperature and flow guages. Transfers mash into lauter tub or mash filter. Recirculates wort until

desired clarity has been obtained. Transfers wort to boiling kettle. Weighs and adds hops and sugar to kettle. Cools mash residue and transfers for collection as animal food. Operates wort chilling plant and adds yeast to wort as directed by laboratory analyses. Maintains sterility of yeast handling and wort cooling plant. Operates in-place cleaning systems. Samples mash, wort, malt, spent grain, and hops. Performs checks on wort samples for specific gravity. Maintains all requisite records of raw materials used and processing parameters.

Job Content Factors	
Workers	
FP: GE10y	IP: T3m E12m
HC: RC	RQ: V1
Materials	
SM: D1 T1	EQ: M1 K1
Functions	
MA: D2 R3 M3 L3	
PA: P1 U2 C1 H1 S2 W2 E2	SA: S1
Context	
EC: L1 C08,02	TC: A1 I2 R2
SS: 6	SC: 0 (na)
LMS: NA (0 %SE)	ASIC: 2186

6503-C BREWERY CELLAR OPERATOR  
Cellar Worker, Brewery

Supervises fermentation, maturation, filtration, carbonation and transfer processes in the manufacture of beers by performing any combination of the following duties.

Removes yeast from fermenting vessels. Transfers fermented beer through heat exchanges to maturation, adding prepared processing aids as required. Manually connects appropriate pipelines to enable vat transfers to be effected. Controls maturation process by taking samples as required and determining specific gravity. Observes flow meter, and temperature and pressure gauges during maturation. Starts pump to transfer beer through filters and adjusts pressure and flow of carbon dioxide according to specifications. Operates equipment to attain required efficiency of filtration. Removes sample of beer to determine carbon dioxide content using testing devices. Operates flash pasteuriser for preparation of beer for filling casks. Transfers filtered beer to bottling, canning and racking tanks. Operates in-place cleaning system. Dismantles equipment and cleans manually. Disposes of spent filter earth. Prepares and adds solutions of clarifying agents, stabilising and chillproofing agents and other aids to processing as required. Takes samples of beer for chemical analysis.

Job Content Factors	
Workers	
FP: GE10y	IP: T3m E12m
HC: RC	RQ: V1
Materials	
SM: D2 T1	EQ: S2 M1 K1

*Functions*

MA: D2 R3 M3 L3

PA: P1 U2 C1 W1 E3

SA: S1

*Context*

EC: L1 C08.02

TC: A1 R2

SS: 6

SC: 0 (na)

LMS: NA (0 %SE)

ASIC: 2186

**6503-D CELLARHAND, WINERY**

Operates grape and wine processing equipment, storage and transport systems in a winery or distillery.

Cleans and sanitises all equipment, pumps, hoses, storage tanks and vessels, and relines with paraffin wax as required. Moves hoses, assembles flow lines through treatment units and transfers liquid stock to and from tankers, vessels and tanks. Operates filter units requiring assembling, adjusting treatment and temperature, and collecting samples for analysis. Operates heating, chilling or freezing plant. Operates pasteuriser, carbonator and sulphuring plant. Operates desulphuring plant, making regular tests for quality. Prepares yeast cultures and operates fermentation vessels or vats, marc and lees presses. Prepares winery additives, involving weighing and mixing of ingredients, and adds to liquid stock. Collects routine samples from tanks for analysis, and performs wine handling duties in a spirit bond or vintage bottle storage.

May operate grape crushers, direct bin tipping, monitor additives and pump must to drainers or other vessels. May operate free run or pressure drainers and pump away grape juice for further processing. May operate light and heavy grape presses and pump away grape juice. May store or treat marc. May be involved in treating wine industry by-products such as marc and lees. May perform similar duties in a spirit bond store requiring customs and excise duties and knowledge, and be designated accordingly.

Bondsman/woman (Non-Retail)

*Job Content Factors**Workers*

FP: GE10y

IP: T1y

HC: RC

RQ: V1

*Materials*

SM: D2 T1

EQ: S2 N2 M1 W1

*Functions*

MA: D2 R3 M3 L3

PA: P2 U1 H2 W1 B1 E4

SA: S1

*Context*

EC: L3 C09.12.07

TC: A1 S2 I2 R2

SS: 3

SC: 3 (3 y)

LMS: NA (0 %SE)

ASIC: 2188,2189

**6503-E SOFT DRINK MIXER  
Soft Drink Maker**

Tends machine that mixes concentrates, sugar and aerated and still water to produce soft drinks.

Turns valves to admit specified amounts of carbonated water and concentrated syrup into tanks, observing volume meters and pressure gauges. Observes soft drink mixture through sight glasses, and adjusts flow of ingredients to control turbulence, and amount of mixture according to specifications.

*Job Content Factors**Workers*

FP: GE10y

IP: T6m E3-6m

HC: RC

RQ: V1

*Materials*

SM: D2 T1

EQ: M1

*Functions*

MA: D3 R4 M3 L3

PA: U1 H1 W1 E3

SA: S1 L2

*Context*

EC: L1 C08.13.09

TC: A1 R1

SS: 6

SC: 0 (na)

LMS: NA (0 %SE)

ASIC: 2185

**6503-F FRUIT AND VEGETABLE JUICER  
OPERATOR**

Operates machinery which processes fruit and vegetables to produce juices and other by-products, performing any combination of the following duties.

Sterilises and checks operation of equipment before production run. Operates bulk produce received, and storage hoppers and equipment. Operates extractors, separators or centrifuges which separate juice, seeds, pulp and peel. Operates press to extract oil from seeds, and peel and other solids. Operates peel treatment machines to produce ring for candied peel production or marmalade. Operates vacuum plate evaporators to produce specified concentrated juice, or pasteuriser or heat exchangers. Operates sulphuring machine or quick freeze equipment for bulk juice storage. Operates pumps, sieves and filters used in juice treatment. Monitors quality of incoming and outgoing produce and adjusts treatment as required or consults supervisors. Performs material handling, filling, packaging and storage duties as required.

May clean and sanitise equipment and work area. May be designated according to specialisation, e.g.

Juice Blender

Juice Evaporator

Juice Extractor Operator

*Job Content Factors**Workers*

FP: GE10y

IP: T2-26w E0-1y

HC: R

RQ: V2 A2

*Materials*

SM: T1

EQ: N2 M1 W1

*Functions*

MA: D2 R4 M3 L3

PA: U1 H1 W1 E3

SA: S1 L2

*Context*

EC: L1 C09.08.01

TC: A1 S1 I2 R2

SS: 3

SC: 3 (na)

LMS: NA (0 %SE)

ASIC: 213

**6503-Z BEVERAGE PROCESSING AND  
RELATED OCCUPATIONS (NON-DAIRY)  
nec**

This residual group covers non-dairy beverage processing and related occupations not elsewhere classified in Unit Group 6503, e.g.

Liqueur Maker

Spirit Blender

Wine Blender

**6504 GENERAL FOOD PROCESSING MACHINE OPERATORS**

This unit group covers machine operators concerned with processing a variety of food and related products.

**Entry Requirements** Year 9-11 plus up to 3 years' experience.

**Activities include** operating machines to perform a variety of processes on food products, including canning and packaging.

# **6504-A GENERAL FOOD PROCESSING MACHINE OPERATOR**

Operates one or more machines to cook, quick freeze, dehydrate, crush or grind, mix and blend, or separate components of food, performing any combination of the following duties.

Checks cleanliness and operation of machine before production run. Loads specified quantities of food and other additives, if applicable, into machine or vessel, or starts materials feeding equipment. Starts machine and operates controls to obtain desired setting. Examines samples during process to ensure machine is functioning adequately and to check progress of process. Monitors food in machine as required. Adjusts controls and clears blockages as necessary. Stirs contents as required. Stops machine when process is completed or after specified time. Regulates discharge of contents of machine at completion of process. Cleans equipment and work area.

May operate a particular type of food processing machine and be designated accordingly, e.g.

Additive Mix Operator	Cake Mix Operator
Cooker Operator	Deep Fryer
Field Pea Splitter	Food Centrifuge Operator
Food Sieving Operator	Food Size Grading Operator
Fruit Dehydrator	Glaze Dehydrator
Meat and Vegetable Mixer	Soup Mix Operator
Vegetable Dehydrator	
Food Drying Machinery Operator; Food Drying Operator	
Food Grinding Machine Operator; Food Grinding Operator	
Food Mixing Machine Operator; Food Mixing Operator	
Food Separating Machine Operator; Food Separating Operator	
Food Vacuum/Drum Filter Operator	
Pet Food Processing Machine Operator	

## **Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T2-10w E1y
HC: RC	RQ: D2 V2 A2
<b>Materials</b>	
SM: T1	EQ: M1 W2
<b>Functions</b>	
MA: D2 R4 M3 L3	
PA: U1 C2 H2 W1 E3	SA: S2 L1
<b>Context</b>	
EC: L1 C09,01,04	TC: A1 S2 I2 R2
SS: 3	SC: 0 (na)
LMS: NA (0 %SE)	ASIC: 21, 476

# **6504-B FOODS EXTRUDER OPERATOR**

Operates machinery which produces foods by crushing, extruding and flavouring grain products.

Receives production schedule from supervisor. Checks cleanliness of equipment and fitting of correct die. Adjusts clearance of rolling mill. Starts flow of ingredients to mixer and rolling mill, and monitors quality of mixtures. Monitors function of extruder, moisture content and temperature, and quality of shaped food. Monitors flow rate to flavour spray/coating drum, and tumble drier. Cleans equipment. Changes die for different shapes required.

May operate pasta making or freeze drying equipment in the production of pasta noodles, spaghetti and related products and be designated accordingly, e.g.

Pasta Maker	Noodle Maker
Spaghetti Maker	

## **Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T3m
HC: RC	RQ: D2 V1 A2
<b>Materials</b>	
SM: T1	EQ: S1 M1 W2
<b>Functions</b>	
MA: D2 R4 M3 L3	
PA: P2 U1 H1 W1 E3	SA: S1
<b>Context</b>	
EC: L1 C09	TC: A1 I2 R1
SS: 3	SC: 0 (na)
LMS: NA (0 %SE)	ASIC: 2153

# **6504-C RETORT OPERATOR Autoclave Operator (Food Processing)**

Controls operations of retorts which cook, and sterilise or pasteurise canned foods.

Receives production schedule detailing types of produce, can sizes and retorting conditions. Loads baskets or cradles of cans into retorts and secures door. Controls temperature by regulating steam pressure and time of retorting. Controls pressure at start of cooling, the cooling time and unloading of the retort. Records production data and accounts for all cans treated.

May control a battery of retorts and direct other workers. May use a travelling crane or other devices to load and unload retorts.

## **Job Content Factors**

<b>Workers</b>	
FP: GE10-11y	IP: T3-6m E3y
HC: RCI	RQ: D2 V2 A2
<b>Materials</b>	
SM: D2 T1	EQ: M1 W2
<b>Functions</b>	
MA: A2 P2 D2 R3 M3 L3	
PA: U1 C2 H1 W1 E3	SA: A2 S1 B2 R4
<b>Context</b>	
EC: L1 C01,08,09	TC: A1 I1 R2 T1
SS: 4	SC: 4 (na)
LMS: NA (0 %SE)	ASIC: 21

# **6504-D SYRUP MAKER**

Tends equipment to mix ingredients and make syrups and flavourings according to formulas.

Determines quantities of ingredients required to make specified quantity of syrup using charts and formulas. Dumps sugar and flavouring ingredients, admits water into mixing vessel, and starts mixer to blend syrup. Observes thermometer and gauges, and opens valve to admit steam into jacket of mixer to invert sugar, eliminate air and sterilise syrups. Tests sugar content, arranges pipes, pumps solution to feed tank and monitors its temperature, composition and quality. Records amounts of syrups, extracts or flavourings produced and materials used.

May extract vanilla flavouring from ground vanilla beans and blend with sugar based syrup. May take samples and reconstitute solutions to produce specified strengths using evaporators and filters. May be designated according to product made, e.g.

Brine Maker	Extract Maker
Flavour Maker	Food Colouring Maker
Pickling Solution Maker	Preservatives Maker
Syrup Blender	

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T3-6m E3-12m
HC: RC	RQ: D2 V2
<b>Materials</b>	
SM: D2 T1	EQ: S2 M1
<b>Functions</b>	
MA: D2 R3 M3 L3	
PA: U1 H2 S2 W2 B2 E3	SA: S1 L2
<b>Context</b>	
EC: L1 C01,08	TC: A1 S2 I2
SS: 3	SC: 3 (2 y)
LMS: NA (0 %SE)	ASIC: 218

**6504-E CAN FILLER AND CLOSER OPERATOR**

Operates machinery which fills cans and seals on the lid (closer) in a food production line.

Checks cleanliness and operation of machines and equipment before starting production run. Checks supplies of filling materials and the supply of lids for the closer. Monitors the operation of conveyors, filling machine and closer, the incoming food quality and the standard of the lid seal and code stamping. Takes corrective action or consults supervisor when production difficulties occur. Cleans equipment and work area.

May monitor the temperature and function of a pre-heater exhaustor or continuous cooker and cooler. May fill cans by hand or operate a single cycle closing machine.

**Job Content Factors**

<b>Workers</b>	
FP: GE9-10y	IP: T2-4w E1y
HC: RI	RQ: D1 V1 A2
<b>Materials</b>	
SM: T1	EQ: M1
<b>Functions</b>	
MA: A2 D3 R4 M3 L3	
PA: U1 W1 E1	SA: S2 L1
<b>Context</b>	
EC: L1 C09,08	TC: A1 S2 R1
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 21

**6504-F FROZEN FOODS OPERATOR**

Operates equipment to quick freeze foods using a variety of methods.

Operates a continuous flow freezer by varying the flow rates of refrigerant and the mixture, and pumps it through extruders. Loads trays of loose or packed foods in position between freezer plates. Closes doors and operates blast fans and freezer for specified time. Monitors placement of pieces or prepared trays of food on conveyor belt moving through freezer section. Monitors temperature and pressure gauges, flow rate of refrigerant or liquid air and condensing equipment. Tests samples for consistency, and complete depth of freezing. Produces ices of varying sizes in containers, and crushes and bags ice. Removes blockages in flow systems. Cleans and sanitises equipment and work area.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T2-8w E1y
HC: R	RQ:
<b>Materials</b>	
SM: T1	EQ: M1
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: U1 H1 E2	SA: S1

**Context**

EC: L1 C01,09	TC: J2 R1
SS: 3	SC: 3 (na)
LMS: NA (0 %SE)	ASIC: 21,476

**6504-G MARGARINE MAKER**

Controls the processes and operates equipment which blends ingredients to produce specified margarines.

Pasteurises liquid ingredients. Mixes ingredients to specified formula under controlled temperature conditions by agitation. Emulsifies liquid mixtures and crystallises them by cooling. Reworks emulsions to achieve required texture and colour. Transfers margarine to feed tanks and maintains conditions for other edible oil storage containers. Draws samples for analysis and verification at various stages of production. Directs assistants performing cleaning, sanitising and material handling duties.

May specialise in blending edible oils, or the hydrogenation of heavy oils and be designated accordingly, e.g.

Margarine Blender Operator Hydrogenation Operator

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y	IP: T1y E2-3y
HC: RCI	RQ: D2 V1
<b>Materials</b>	
SM: D2 T1	EQ: S2 M1 K2
<b>Functions</b>	
MA: P2 D2 R2 M3 L2	
PA: P2 U1 H2 W1 E3	SA: S1 B1 R4
<b>Context</b>	
EC: L1 C09,01	TC: A1 R2
SS: 3	SC: 5 (2 y)
LMS: NA (0 %SE)	ASIC: 2140

**6504-H FOOD PACKAGING MACHINE OPERATOR**

Operates a machine which performs filling, wrapping and/or sealing of foodstuffs into paper, cardboard, foil, plastic or glass containers.

Receives production schedule and checks sanitising and functioning of machine and equipment. Monitors the supply and quality of both the containers and foodstuffs. Monitors the functioning of the machine and makes appropriate adjustments to maintain weight, appearance and seal quality specifications. Takes samples as required for quality control. Monitors date stamping equipment. Cleans work area and machine.

May monitor equipment which packs items into large containers. May specialise in the packaging of particular food items or of particular types of containers and be designated accordingly, e.g.

Cardboard Box Filler (Food Products)  
Confectionery Processor  
Packerman/woman, Grain  
Paperbox Liquid Filler (Food Products)  
Plastic Bag Filler (Food Products)

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T2-10w E1y
HC: RC	RQ: D2 V2 A2
<b>Materials</b>	
SM: D2 T1	EQ: N2 M1 W1
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: U1 H1 W1 E3	SA: S1 L2
<b>Context</b>	
EC: L1 C09,08,01	TC: A1 S2 I2 R2 T2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 21

6505 FOOD PROCESSING AND RELATED QUALITY CONTROL OCCUPATIONS

This unit group covers occupations concerned with the quality control of a variety of food products.

**Entry Requirements** Year 9-11 and 1-3 years' experience, plus in some cases, a basic vocational certificate in quality control.

**Activities include** grading animal carcasses according to established standards; classing and accepting fruit and vegetables at receival depots; and performing a variety of quality control functions to ensure food products meet acceptable standards.

6505-A MEAT GRADER

Grades dressed animal carcasses to determine value and quality of meat according to established standards.

Examines rows of suspended carcasses to determine grade based on age, sex, build, conformation, thickness of meat, quantity and distribution of fat, colour texture and marbling of lean meat. Attaches tag identifying grade of carcass.

May weigh carcass using manual or automatic recording scale. May be designated according to carcass graded, e.g.

- Beef Grader
- Lamb Grader
- Pork Grader

Job Content Factors

<i>Workers</i>	
FP: GE9-10y	IP: T6w E2-3y
HC: RIC	RQ: D1 V1
<i>Materials</i>	
SM: D1 T1	EQ: S2
<i>Functions</i>	
MA: A2 D2 R3 M3 L3	
PA: U1 H1 W1 E2	SA: S1 L2
<i>Context</i>	
EC: L1 C01,08	TC: A1 R1
SS: 4	SC: 4 (na)
LMS: NA (0 %SE)	ASIC: 2115,476

6505-B FRUIT AND VEGETABLE CLASSER  
Fruit and Vegetable Assessor; Fruit and Vegetable Grader; Fruit and Vegetable Receiver

Arranges delivery of fresh fruit and vegetables from farmers, and classes and accepts produce at receival depots.

Obtains updated intake requirements from production manager. Supervises unloading of bins or boxes of fruit or vegetables and selects a random sample. Inspects for defects. Either rejects the load or accepts it and records the grading on receival docket. Supervises weighing and storage activity and the supply of empty bins or boxes to suppliers. Updates records regarding quotas and storage capacity. Performs other processing duties as required out of harvest season.

May visit farms prior to harvest to assess produce development and quantity, and advise farmers of receival system. May drive fork lift. May control the cold store. May operate weighbridge.

Job Content Factors

<i>Workers</i>	
FP: GE11-10y	IP: T2m E3y
HC: ICS	RQ: S1 Q2 U1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S2 N2 V1
<i>Functions</i>	
MA: A2 P2 D1 R4 M2 L2	
PA: U1 H1 W1 E2	SA: S1 L2 I1 B2 R4
<i>Context</i>	
EC: T2 L4 C09	TC: A1 S2 I2
SS: 4	SC: 7 (5 y)
LMS: NA (0 %SE)	ASIC: 213,476

6505-C QUALITY CONTROL ASSISTANT (FOOD AND RELATED PRODUCTS)

Takes both regular and random samples from various stages in food production, conducts and records tests and reports non-standard results to production staff.

Receives production and sampling schedule. Resets or changes papers on recording devices. Visits production line to take samples and read gauges. Conducts tests on specimens for many factors including colour, grade, vacuum seal, weight, size and shape and moisture content. Records results, makes calculations and assesses whether they are within acceptable limits. Reports non-standard results to responsible staff. Maintains long term sample storage and conducts tests on them. Assists food technologists with more complex tests. Cleans work place and equipment.

May test certain foods to ensure conformation with consumer and public health regulations and be designated accordingly, e.g.

- Milk/Cream Grader

Job Content Factors

<i>Workers</i>	
FP: GE10-11y PSP6m(PPC)	IP: T2-3m E1-2y
HC: IRC	RQ: S2 Q2 U2 D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 M2
<i>Functions</i>	
MA: I2 A2 D2 R3 M2 L2	
PA: P2 U1 H2 S2 W2 E2	SA: S1 L2
<i>Context</i>	
EC: L1 C08	TC: A1 S2 R2 T2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 21,476

6509 OTHER GENERAL FOOD AND BEVERAGE PROCESSING OCCUPATIONS

This residual unit group covers general food and beverage processing occupations not elsewhere classified in Minor Group 650.

**Activities include** assisting a skilled confectioner in the production of confectionery which is mainly sugar or chocolate based.

**6509-A            CONFECTIONER**  
**Confectioner (Non-Trade)**

Assists a skilled confectioner in the production of confectionery which is mainly sugar or chocolate based, performing any combination of the following duties.

Assembles supplies, weighs and mixes ingredients as directed. Monitors operation of boilers and cookers, lining with wax as required. Cools, folds and rolls bulk confectionery on metal benches. Operates machines which twist, pull, slice and mould boiled confectionery. Operates chocolate enrobing or moulding and filling machines. Operates specialised equipment such as nut roasters and compactors. Cleans equipment and work area. Operates machines which wrap or package confectionery. Operates machinery involved with producing chewing gum, liquorice or other confectionery.

May specialise in certain processes and be designated accordingly, e.g.  
Chocolate Enrobing Machine Operator

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP: T6-48m
HC: RA	RQ: Q2 D2 V1
<i>Materials</i>	
SM: T1	EQ: N1 M1 W2
<i>Functions</i>	
MA: D3 R3 L3	
PA: U1 C1 H1 W1 E3	SA: S1 L2
<i>Context</i>	
EC: L1 C01,09	TC: A1 S2 R1
SS: 4	SC: 4 (2 y)
LMS: NA (0 %SE)	ASIC: 2173

MINOR GROUP 651

MEAT PROCESSING OCCUPATIONS

Meat Processing Occupations are classified in the following unit groups.

- 6510 Supervisors, Meat and Related Processing Occupations
- 6511 Meat Trade and Related Occupations
- 6512 Apprentice Meat Trade Occupations
- 6513 Meat Processing Machine Operators
- 6514 Basic Processing Occupations, Meat Products

*Related Occupations*

- Occupation 6604-A : Tannery Operator
- Occupation 6603-B : Hide and Skin Classer

6510 SUPERVISORS, MEAT AND RELATED PROCESSING OCCUPATIONS

This unit group covers supervisory occupations concerned with processing livestock, poultry, fish and other sea-food.

**Entry Requirements** a trade qualification in a relevant food trade where supervising tradespersons, and/or 3-6 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

6510-A

SUPERVISOR, SLAUGHTERING, MEAT CUTTING AND CURING OCCUPATIONS

Abattoir Supervisor; Foreman/woman, Abattoir; Foreman/woman, Knackery; Foreman/woman, Meatworks; Knackery Supervisor; Meatworks Supervisor

Supervises and co-ordinates activities of workers engaged in slaughtering animals, preparing and preserving meats, processing and packing fish, crustaceans and shellfish, and processing edible and inedible by-products for commercial or domestic use.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity of meat production and be designated accordingly, e.g.

- Supervisor, Boning Line Occupations
- Supervisor, Butchering Occupations
- Supervisor, Crustacean Processing Occupations
- Supervisor, Fish Canning Occupations
- Supervisor, Fish Crumbing Occupations
- Supervisor, Fish Filleting Occupations

- Supervisor, Ham and Bacon Making Occupations
- Supervisor, Killing Floor Occupations
- Supervisor, Meat By-Product Processing Occupations
- Supervisor, Offal Line Occupations
- Supervisor, Pet Food Processing Occupations
- Supervisor, Poultry Processing Occupations
- Supervisor, Rabbit Processing Occupations
- Supervisor, Shellfish Processing Occupations
- Supervisor, Smallgoods Making Occupations

Job Content Factors	
Workers	
FP: GE10-11y	IP: T3m E4-6y
HC: REI	RQ: U2 D1 V1 A2
Materials	
SM: D2 P1 T2	EQ: S2 M2
Functions	
MA: A2 P1 D2 R2 M2 L2	
PA: P2 C2 S2 W2 E2	SA: S2 L1 B1 R2-4
Context	
EC: L1 C09,08,13	TC: A1 I2 T1
SS: 7	SC: 9 (na)
LMS: NA (50%SE)	ASIC: 211

6511 MEAT TRADE AND RELATED OCCUPATIONS

This unit group covers occupations concerned with slaughtering animals and preparing meat for human consumption or for pet food.

**Entry Requirements** usually a trade qualification in an appropriate meat trade.

**Activities include** slaughtering animals; selecting, cutting, trimming and preparing meats for marketing or cooking; and selecting and preparing meat to make smallgoods.

6511-A RETAIL BUTCHER  
Butcher

Cuts, trims and prepares meat for marketing or cooking, performing any combination of the following duties.

Cuts and trims standard cuts of meat to shape and size for display or as ordered by customer, using hand tools and power equipment. Cuts fresh or frozen loins, rumps, rounds or other meat into individual portions, steak or chops for cooking, using knife, electric bench saw or hand saw or cleaver (chopper). Trims excess fat and gristle and scrapes bone dust from portions. Sets up and operates mincer (grinder), powered mixer and patty forming or sausage forming machine to prepare meat and other ingredients to make meat patties or sausages. Feeds pieces of boneless meat through roller cutter of cubing machine to cube or tenderise. Applies bread crumbs to steaks or cutlets by dipping meat into egg wash and pressing into crumbs. Packs products in lined containers or on trays. Shapes and ties roasts. Cuts out bones from meat cuts. Wraps and weighs meat for customers and collects payment for sales. Advises customers on suitable cuts of meat according to their needs.

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RSC	RQ: D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 M1 K1
<i>Functions</i>	
MA: P2 D2 R3 M2 L2	
PA: P2 U1 H1 W1 E3	SA: S1 L2 I1 B1 R4
<i>Context</i>	
EC: L1 C09,13,01	TC: A1 I1
SS: 4	SC: 7 (4 y)
LMS: 22500 (0 %SE)	ASIC: 4882

6511-B NON-RETAIL BUTCHER  
Bouchier

Selects and prepares meats and poultry, and portions cooked meats for serving in restaurants, catering establishments and in meat packing plants including pet food establishments.

Chops or grinds meats, using mincer (grinder). Cuts, saws and chops meats into pieces of different sizes, using electric bench or hand saw, cleaver (chopper) and knives. Shapes and ties roasts and fowl. Slices and trims steaks, chops, fowl, fish and shellfish for individual servings or sandwiches, according to established portion control procedure. Inspects and weighs portions to ensure conformity with size and quality standards. Stores meats, fowl and seafood in refrigerators. Requisitions supplies. Assists in menu planning, scheduling and estimating or calculating food production costs.

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: R1	RQ: D1 V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 M1 K1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 U1 H1 W1 E3	SA: S1 I2 B1 R4
<i>Context</i>	
EC: L1 C09,13,01	TC: A1
SS: 4	SC: 7 (4 y)
LMS: NA (5 %SE)	ASIC: 2115,476

6511-C SMALLGOODS MAKER

Selects and prepares meat to make smallgoods by performing any combination of the following duties.

Prepares meat by removing bones and trimming fat from lean. Makes seasonings and pickles by mixing spices, salt and other ingredients according to formulae. Cuts, minces and grinds meat and fat. Adds seasonings to ground meat. Operates filling machines, cooking kettles and vats, and smoking chambers. Cures meat by wet or dry processes.

May supervise other workers. May specialise in ham and bacon curing or other smallgoods making and be designated accordingly, e.g.

Bacon Curer  
Continental Smallgoods Maker  
Ham and Bacon Smallgoods Maker

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RCS	RQ: D1 V1
<i>Materials</i>	
SM: D1 T1	EQ: S1 N2 M1
<i>Functions</i>	
MA: D2 R3 M3 L3	
PA: U1 H1 W1 E3	SA: S1 L2 B1 R0-4
<i>Context</i>	
EC: L1 C08,09,01	TC: A1 I2
SS: 4	SC: 8 (4 y)
LMS: NA (5 %SE)	ASIC: 2117,476

6511-D SLAUGHTERMAN/WOMAN

Slaughters livestock in abattoirs or knackeries and uses tools such as saws, cleavers and knives and mechanical devices such as hide strippers, air knives and mechanical trimmers to perform any combination of the following duties.

Severs jugular vein of animals to drain blood and facilitate dressing. Trims and removes head meat or severs animal heads. Skins cattle, sheep and goat carcasses and shaves pig carcasses. Slits open, eviscerates and trims out animal

carcasses. Scribes, saws or splits carcasses into smaller portions to facilitate handling. Trims, sorts and washes viscera to prepare and separate edible and inedible portions for further processing.

May slaughter livestock according to Hallal (Muslim) or Kosher (Jewish) law if appointed by the appropriate religious council, and be designated accordingly, e.g.

- Slaughterman/woman (Hallal)
- Slaughterman/woman (Kosher)

<b>Job Content Factors</b>	
<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE10y HC: R	IP: IP: T2-4y RQ: Q2 D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: S1 N1 M2
<b>Functions</b>	
MA: D3 R4 L3 PA: U1 C1 H1 W1 B1 E4	SA: S2 L1 B2 R0-4
<b>Context</b>	
EC: L1 C02,06,08 SS: 5	TC: A1 S2 I2 R1 SC: 9 (3 y)
LMS: NA (0 %SE)	ASIC: 2115

6512 APPRENTICE MEAT TRADE OCCUPATIONS

This unit group covers apprentice occupations in meat product processing.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

6512-A APPRENTICE BUTCHER

Receives instructions and training in the trade of butchery.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<b>Context</b>	
EC: L1 C08,09,01 SS: 1	TC: A1 I2 SC: 3 (4 y)
LMS: NA (0 %SE)	ASIC: 2117,476

6512-C APPRENTICE SLAUGHTERMAN/  
WOMAN  
Learner Slaughterman/woman

Receives instruction and training in the trade of slaughtering.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<b>Job Content Factors</b>	
<b>Workers</b>	
FP: GE10y HC: R	IP: RQ: Q2 D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: S1 N1 M2
<b>Functions</b>	
MA: D3 R4 L3 PA: U1 C1 H1 W1 B1 E4	SA: S2 L1
<b>Context</b>	
EC: L1 C02,06,08 SS: 1	TC: A1 S2 I2 R1 SC: 3 (4 y)
LMS: NA (0 %SE)	ASIC: 2115

6512-B APPRENTICE SMALLGOODS MAKER

Receives instruction and training in the trade of smallgoods making.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<b>Job Content Factors</b>	
<b>Workers</b>	
FP: GE10y HC: RC	IP: RQ: D1 V1
<b>Materials</b>	
SM: D1 T1	EQ: S1 N2 M1
<b>Functions</b>	
MA: D3 R4 M3 L3 PA: U1 H1 W1 E3	SA: S1 L2

6513 MEAT PROCESSING MACHINE OPERATORS

This unit group covers machinery and equipment operators concerned with processing meat products.

**Entry Requirements** Year 9-10 in most cases, plus up to one year's experience.

**Activities include** operating equipment to produce smallgoods and casings, defeather poultry carcasses, and process and cook fish.

6513-A SMALLGOODS PROCESSING EQUIPMENT OPERATOR  
Smallgoods Process Worker; Smallgoods Worker

Performs any combination of the following duties in a smallgoods factory.

Controls battery of smoke chambers in which meat cuts are smoked, cooked and cured. Operates equipment that extrudes meat or meat emulsion into casings or shapes to make linked sausages, salamis and related products, or into moulds to make meat loaves, pressed hams and jellied meats. Prepares pickling solutions from formula card. Pickles meat. Spreads mixture of dry materials to cure meat products. Tends tanks or kettles to cook smallgoods. Tends machines that grind, cut or mince meat. Tends machine that removes artificial casing from smoked meat products such as link sausages and viennas to produce skinless variety. Rolls and ties boneless cuts of meat by hand to form various kinds and sizes of roasts and smallgoods. Tends machine that presses meat cuts to uniform shape and firmness to facilitate further processing. Weighs and mixes seasonings and prepares flavouring agents according to formula. Pushes trolleys holding meat products between work stations. Twists or ties ends of casings filled with sausage meat to form linked products. Removes cooked meat from metal moulds. Cleans work area and utensils.

May be designated according to equipment operated or duty performed, e.g.

- Cutter Operator  
Grinder Operator  
Mincer Operator  
Smokehouse Operator  
Dry Cure Man/Woman  
Meat Roll Tier  
Seasoning Mixer
- Filler Operator  
Meat Press Operator  
Mixer Operator  
Smallgoods Cooker Operator  
Meat Pickler  
Sausage Peeler

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9-10y	IP: T1-24m
HC: R	RQ: U2 D1 V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 N2 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C2 H1 W1 E3	SA: S1 L1
<i>Context</i>	
EC: L1 C01,08,09	TC: A1 R2
SS: 4	SC: 4 (2 y)
LMS: NA (0 %SE)	ASIC: 2117

6513-B DEFEATHERER/EVISCERATOR OPERATOR

Tends machine that scalds and defeathers poultry carcasses suspended from moving conveyor.

Turns valves and handwheels to set water temperature in scalders as specified and to adjust position of defeathering discs to size of birds. Ignites gas jets of singeing machine and adjusts flames according to size of birds. Starts conveyor of poultry slaughtering line. Examines defeathered poultry periodically to detect faulty removal of feathers and adjusts scalders, discs and singeing flame as required. Monitors automatic evisceration process.

May direct workers engaged in removing pin-feathers and correct defective work.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9-10y	IP: T6m E6m
HC: R	RQ: Q2 D1 V1
<i>Materials</i>	
SM: T1	EQ: S2 M1
<i>Functions</i>	
MA: D2 R3 L3	
PA: P2 U2 C2 H2 S2 W2 E3	SA: S1 L1 B2 R4
<i>Context</i>	
EC: L1 C01,02,06	TC: A1 R2
SS: 3	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 2116

6513-C POULTRY SAWS OPERATOR

Cuts poultry carcasses into portions.

Operates circular saw to cut poultry carcasses into a variety of standard portions for further processing, marketing or packaging.

May package cut portions.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9-10y	IP: T3m E3m
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: D1 T1	EQ: S2 M1
<i>Functions</i>	
MA: A2 D2 R3 M3 L3	
PA: P1 C1 H1 W1 E3	SA: S1 L1
<i>Context</i>	
EC: L1 C08,09	TC: A1 R2
SS: 3	SC: 3 (na)
LMS: NA (0 %SE)	ASIC: 2116,476

6513-D CASINGS WORKER

Performs any combination of the following duties in the processing of animal casings (intestines) for use in enclosing sausages and the manufacture of other products.

Operates machine which cleans casings. Pulls knots of raw material through machine rollers and clinging beaters to remove mucus. Ensures raw material is flat as it goes through

rollers. Calibrates raw materials into different sizes. Soaks and salts raw materials. Places finished casing onto plastic tube ready for shipment and use.

May be involved in the manufacture of products such as gut sports racquet strings or sutures. May be designated according to task performed, e.g.

Calibrator, Casings  
Casings Cooker

Casing Machine Operator  
Casing Stripper

**Job Content Factors**

<b>Workers</b>	
FP: GE9-10y	IP: T2-24m
HC: R	RQ: D2 V1
<b>Materials</b>	
SM: T1	EQ: M2 W2
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: P2 U1 C1 H1 W1 E3	SA: S1 L1
<b>Context</b>	
EC: L1 C08,09	TC: A1 R1
SS: 4	SC: 6 (2 y)
LMS: NA (0 %SE)	ASIC: 2115

**6513-E FISH COOKER**

Controls the grading, loading and cooking of fish, shellfish and crustaceans for further processing, performing any combination of the following duties.

Grades shellfish and crustaceans by size, placing into baskets and hoisting into boiling water vats. Stacks and grades fish on trolleys, and wheels to pre-cooker. Monitors temperature by adjusting steam or gasfire heating and controls cooking time, according to size and species of fish, and season. Unloads and cools fish quickly.

May assist in fish butchering or lobster tail pulling duties.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T6-12m E6m
HC: RC	RQ: D2 V1
<b>Materials</b>	
SM: D2 T1	EQ: M1 W2
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: U2 C2 H1 W1 E3	SA: S1
<b>Context</b>	
EC: L1 C01,08,09	TC: A1 S2 R2
SS: 3	SC: 4 (2 y)
LMS: NA (0 %SE)	ASIC: 2174

**6513-F FISH PLANT OPERATOR**

Controls the operation of a variety of machines on a fish processing production line, performing any combination of the following duties.

Receives production schedule, and checks sanitising and functioning of machines. Operates band-saw to cut off fish heads and cut fish into smaller pieces. Selects fish for can

filler machine. Operates slicing and cutting machines to cut fish fingers or fillet whole fish. Operates batter mixing, crumb coating and deep frying machinery. Operates blast freezers. Processes crustaceans by operating machines which thaw and grade them, or skin prawn tails. Operates freezing or thawing brine tanks, baskets and cranes. Operates fish smoking boxes and equipment. Cleans and sanitises equipment and work area.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T1-9m E6-12m
HC: RC	RQ: D1 V2
<b>Materials</b>	
SM: D2 T1	EQ: S2 M1 W2
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: U2 H2 W1 E3	SA: L1 B2 R4
<b>Context</b>	
EC: L1 C08,09,01	TC: A1 I2
SS: 3	SC: 4 (2 y)
LMS: NA (0 %SE)	ASIC: 2174

**6513-G MEAT BY-PRODUCTS MACHINE OPERATOR**

Performs any combination of the following duties in a meat by-products processing plant.

Operates cookers to extract grease and tallow from offal, fat, blood meat, bones and butcher shop waste material. Operates presses, dryers, grinders, pump and conveyors. Operates extractor equipment and condensing units and auxiliary equipment to remove grease or tallow from cooker material. Operates filter press or other equipment which refines tallow. Operates machine that crushes and bags animal bones for use in making products such as animal feed and fertilisers.

May be designated according to task performed, e.g.

Dry Renderer  
Fugal Hand  
Rendering Equipment Tender

Fat Refiner  
Pot Tender

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T0-5w
HC: R	RQ: Q1 D1 V1
<b>Materials</b>	
SM: T1	EQ: N1 M1
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 C1 H1 W1 B1 E3	SA: S1 L1
<b>Context</b>	
EC: L1 C01,02,06	TC: A1 R1
SS: 4	SC: 4 (2 y)
LMS: NA (0 %SE)	ASIC: 2115

**6513-Z MEAT PROCESSING MACHINE OPERATORS nec**

This residual group covers meat processing machine operators not elsewhere classified in Unit Group 6513.

**6514 BASIC PROCESSING OCCUPATIONS, MEAT PRODUCTS**

This unit group covers occupations concerned with performing basic processing duties on meat products.

**Entry Requirements** Year 9 in some cases. Fish filleters also require one year's experience.

**Activities include** bleeding, gutting and boning animals; slaughtering poultry; tending and feeding basic processing equipment; loading, unloading, and packing products; and cleaning and sanitising equipment and work areas.

**6514-A MEATWORKS LABOURER, KNIFE  
Eviscerator; Gutter, Animal; Knifehand;  
Viscera Worker**

Eviscerates livestock carcasses, working as a member of a team and performing any combination of the following duties.

Slits open abdominal cavity of carcass, using knife. Reaches inside and cuts membranes holding intestines. Cuts bung from intestines, and ties intestines and bladder to prevent leakage of contents. Pulls intestines from carcass, trims off caul fat and dumps into separate containers for further processing. Separates liver and heart from stomach to present carcass and viscera for inspection. Removes beef stomach for tripe processing. Cuts through fat to expose and remove kidneys. Cuts out organs or glands such as sweetbreads, liver, heart and spleen, and places them on conveyor or in containers. Cuts off tail and excess fat from beef carcass. Inserts spiral rod into gullet to sever gullet and windpipe from other neck tissues, and ties or cuts out gullet, using knife. Cuts across bronchi to open, separate and trim lungs. Washes lungs in cold water trough and squeezes out blood. Inserts knife under rib cage of hog carcass and cuts out spare ribs. Pulls leaf fat free of brisket end with both hands. Cuts off bruises, blemishes and ragged tissue to improve appearance and preserve carcasses.

May patch leaks in intestines, using skewers. May wash carcass and viscera with hose. May be designated according to function performed or part of animal eviscerated, e.g.

Belly Opener	Bung Dropper
Gut Sorter	Kidney Remover
Lung Opener	Lung Washer
Offal Separator	Viscera Defatter
Wash-Rail Trimmer	

May specialise in stunning and shackling livestock using mechanical or electric stunning device and be designated accordingly,

Stunner and Shackler, Abattoir/Knackery; Knockerdown, Abattoir/Knackery

May specialise in severing jugular vein of stunned, suspended or shackled animals of a particular type with sticking knife and be designated accordingly, e.g.

Calf Sticker	Cattle Sticker
Goat Sticker	Pig Sticker
Sheep Sticker	Sticker, Abattoir

May specialise in skinning animal carcasses and be designated by kind or section of carcass skinned, or by type of animal skinned, e.g.

Animal Skinner	Backer
Brisket Skinner	Calf Skinner
Sider	

**Job Content Factors**

<i>Workers</i>	
FP: GE NFR	IP: T6w
HC: R	RQ: Q2 D1 V1
<i>Materials</i>	
SM: T1	EQ: S2 N2 W2
<i>Functions</i>	
MA: D3 R4	
PA: U1 C2 H1 W1 B1 E4	SA: S2 L1
<i>Context</i>	
EC: L1 C02,06,09	TC: A1 S2 I2 R1
SS: 3	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 2115

**6514-B MEAT CUTTER  
Trimmer (Meat Processing)**

Trims off external fat, gristle, skin, tendons and bruises on sides or carcasses of beasts.

Trims meat cuts such as loins, rumps, rounds, sirloin, fillets and chops, and trims meat, fat and gristle from bones, using butcher knives or electric powered saws. Places trimmings and bones in separate containers. Washes, scrapes or trims foreign material and blood from meat.

May be designated by part of animal cut or by task performed, e.g.

Carcass Splitter	Head Trimmer
Meat Trimmer	

**Job Content Factors**

<i>Workers</i>	
FP: GE9y	IP: T6w
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: T1	EQ: S1
<i>Functions</i>	
MA: D3 R4 L3	
PA: P1 U2 C1 H1 W1 B1 E3	SA: S2 L1
<i>Context</i>	
EC: L1 C02,06,09	TC: A1 R1
SS: 7	SC: 7 (4 y)
LMS: NA (0 %SE)	ASIC: 2115

**6514-C MEAT BONER  
Boners**

Cuts meat and bones from sides of meat.

Operates switching controls to direct and drop carcass of beef or meat cuts from supply rail to boning table. Inserts knife in meat and cuts to separate meat, fat or tissue from around bone. Pulls and twists bones loose from meat. Tosses boned meat and bones to specified table, conveyor, bucket or truck for further processing.

May be designated by type of animal, or according to cut of meat boned, e.g.

Beef Boner	Lamb Boner
Mutton Boner	Pork Boner
Veal Boner	

**Job Content Factors**

<i>Workers</i>	
FP: GE9y	IP: T6w
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: T1	EQ: S1
<i>Functions</i>	
MA: D3 R4 L3	
PA: P1 H1 W1 E3	SA: S1 L1
<i>Context</i>	
EC: L1 C02,06,09	TC: A1 I2 R2 T2
SS: 4	SC: 8 (4 y)
LMS: NA (0 %SE)	ASIC: 2115

**6514-D MEAT SLICER  
Slicer**

Cuts sides or quarters of meat into standard cuts and trims off internal fat to prepare them for packing and marketing.

Cuts and trims meat cuts such as rumps, flanks and shoulders to shape them and remove internal fat, blood clots, bruises and undesirable matter. Trims residual meat from bones, using chisels and hand or electric powered knives. Tosses boned meat, trimmings and bones to specified table, conveyor, bucket or truck for further processing.

May roll and tie boned meat cuts to make roasts. May package meat cuts for distribution and sale. May be designated by type of animal sliced, e.g.

Beef Slicer	Lamb Slicer
Mutton Slicer	Pork Slicer
Veal Slicer	

**Job Content Factors**

<b>Workers</b>	
FP: GE9y	IP: T6w
HC: R	RQ: D1 V1
<b>Materials</b>	
SM: T1	EQ: S1
<b>Functions</b>	
MA: D3 R4 L3	
PA: P1 H1 W1 E3	SA: S1 L1
<b>Context</b>	
EC: L1 C02,06,09	TC: A1 I2 R2 T2
SS: 4	SC: 8 (4 y)
LMS: NA (0 %SE)	ASIC: 2115

**6514-E POULTRY BONER**

Prepares fresh boneless chicken meat for packaging or cooking.

Manually bones chicken meat from breast or thigh portion, working as a member of team. Prepares boneless meat for tray presentation or further processing. Sharpens knives using standard procedures.

May package boneless meat. May trim necks and be designated accordingly, e.g.  
Neck Trimmer

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T2-3w
HC: R	RQ: D1 V1
<b>Materials</b>	
SM: T1	EQ: S1
<b>Functions</b>	
MA: D3 R4 L3	
PA: P1 U2 C1 H1 S2 W2 E2	SA: S2 L1
<b>Context</b>	
EC: L1 C09	TC: A1 S2 I2 R1
SS: 3	SC: 3 (na)
LMS: NA (0 %SE)	ASIC: 2116,476

**6514-F POULTRY PROCESSING WORKER**

Performs any combination of the following duties in a poultry processing factory.

Shackles and suspends live or slaughtered poultry for killing or processing. Slaughters fowl by severing jugular vein. Removes viscera package from carcass. Separates hearts and livers. Places removed offal in chilling container. Removes lungs, feels inside viscera cavity and, if necessary, scrapes residual particles using hand tool scraper. Removes necks by cutting with secateurs. Transfers birds from one line to another. Grades dressed poultry according to established standards. Removes pin feathers from poultry carcass using pinning knife. Adds ice to paddle chiller. Loads and unloads crates between pallets and conveyor lines. Cleans working areas.

May be designated according to particular type of work performed, e.g.

Poultry Grader	Poultry Hanger
Poultry Offal Separator	Poultry Rehanger
Poultry Yardman/woman	Poultry Slaughterman/ woman

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T2-4w
HC: R	RQ: D1 V1
<b>Materials</b>	
SM: T1	EQ: S1 N1

**Functions**

MA: D3 R4 L3	
PA: U1 C1 H1 W1 E3	SA: S1 L2
<b>Context</b>	
EC: L1 C02,06,08	TC: A1 I2 R1
SS: 3	SC: 3 (na)
LMS: NA (0 %SE)	ASIC: 2116

**6514-G FISH FILLETER**

Fillets fish by hand.

Empties fish from containers onto filleting tables or sinks. Uses knife to remove scales and gut fish. Identifies type of fish and uses appropriate method to cut off head, backbones, fins or gills. Grades fillet and stacks for further processing or packaging. Uses band-saws on large fish. Cleans and sanitises work area.

May operate a fish scaling drum and also perform other packing, processing and freezing room duties.

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T6-12m Ely
HC: R1	RQ: D1 V1
<b>Materials</b>	
SM: T1	EQ: S1
<b>Functions</b>	
MA: D3 R4	
PA: P1 U2 C2 H2 W1 E3	SA: S1
<b>Context</b>	
EC: L1 C09,08	TC: A1 S2 I2 R1
SS: 3	SC: 4 (2 y)
LMS: NA (0 %SE)	ASIC: 2174,476

**6514-H FISH PROCESS WORKER**

Performs any combination of the following manual duties in grading and packing fish.

Inspects fish on conveyor and sorts for size or quality. Scrapes skin from precooked fish. Picks blood meat and other offal from precooked fish. Packs fish of all kinds according to different patterns, and counts packs before freezing. Packs frozen fish blocks into cartons. Tends and feeds machines which slice, peel skin or crumb fish. Transfers fish products around factory. Cleans and sanitises equipment and work areas.

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T1-2m
HC: R	RQ: D1 V1
<b>Materials</b>	
SM: T1	EQ: S2 N1 M1 W2
<b>Functions</b>	
MA: D3 R4 L3	
PA: U1 C2 H1 S2 W2 E2	SA: S2 L2
<b>Context</b>	
EC: L1 C08,02	TC: A1 S2 I2 R1
SS: 2	SC: 3 (2 y)
LMS: NA (0 %SE)	ASIC: 2174,476

**6514-Z BASIC PROCESSING OCCUPATIONS, MEAT PRODUCTS nec**

This residual group covers occupations concerned with performing basic processing duties on meat products not elsewhere classified in Unit Group 6514, e.g.

Meat Refrigeration Hand    Meat Shrouder  
Oyster Opener

## MINOR GROUP 652

### FIELD CROPS PRODUCT PROCESSING OCCUPATIONS

Field Crops Product Processing Occupations are classified in the following unit groups.

- 6520 Supervisors, Field Crops Product Processing Occupations
- 6521 Breadmaking, Milling and Pastrycooking Trade and Related Occupations
- 6522 Apprentice Breadmaking, Milling and Pastrycooking Trade Occupations
- 6523 Breadmaking and Pastrycooking Assistant Occupations
- 6524 Field Crops Product Processing Machine Operators
- 6525 Basic Field Crops Product Processing Occupations

#### *Related Occupations*

- Occupation 5019-C : Sugar Cane Inspector
- Occupation 9005-A : Sugar Cane Crusher Operator

#### 6520 SUPERVISORS, FIELD CROPS PRODUCT PROCESSING OCCUPATIONS

This unit group covers supervisory occupations concerned with cereals, sugar, tobacco and other field crops processing.

**Entry Requirements** a trade qualification in a relevant food trade where supervising tradespersons, and/or 3-10 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### 6520-A SUPERVISOR, BREADMAKING AND PASTRYCOOKING OCCUPATIONS

Supervises and co-ordinates activities of workers engaged in making and baking products such as doughs, breads, cakes and pastries.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.

- |                        |                           |
|------------------------|---------------------------|
| Bakery Supervisor      | Biscuit Making Supervisor |
| Breadroom Supervisor   | Crumpet Making Supervisor |
| Pastrygoods Supervisor | Senior Baker              |

#### *Job Content Factors*

##### *Workers*

- |                    |                    |
|--------------------|--------------------|
| FP: GE10y PSP4y(T) | IP: T1y E3-4y      |
| or FP: GE10y       | IP: T1y E6-7y      |
| HC: RCE            | RQ: S2 U2 D1 V1 A2 |

##### *Materials*

- |              |           |
|--------------|-----------|
| SM: D2 P1 T2 | EQ: S2 M2 |
|--------------|-----------|

##### *Functions*

- |                          |                      |
|--------------------------|----------------------|
| MA: I2 A2 P1 D2 R2 M3 L2 | SA: S2 L1 I2 B1 R2-4 |
| PA: P2 S2 W2 E1          |                      |

#### *Context*

- |               |              |
|---------------|--------------|
| EC: L1 C02,09 | TC: A1 I1 T1 |
| SS: 7         | SC: 9 (na)   |

LMS: NA (0 %SE)

ASIC: 216,2173

#### 6520-B SUPERVISOR, GRAIN MILLING OCCUPATIONS

##### Head Miller

Supervises and co-ordinates activities of workers concerned with cleaning, separating, crushing, grinding, blending, filtering, neutralising, steeping and otherwise processing grains, corn and oil seeds to make flour, starches and related products such as stock feeds.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.

- |                              |                          |
|------------------------------|--------------------------|
| Cereal Foods Supervisor      | Flour Milling Supervisor |
| Rice Milling Supervisor      | Starch Supervisor        |
| Malting Supervisor           | Head Maltster            |
| Stockfeed Milling Supervisor |                          |

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP: T6m E4-6y
or FP: GE11y	IP: T6m E6-10y
HC: RCE	RQ: U2 D2 V1 A1
<b>Materials</b>	
SM: D2 P1 T2	EQ: P2 S2 M2
<b>Functions</b>	
MA: I2 P1 D2 R2 M3 L2	
FA: P2 U2 H2 S2 W2 B2 E2	SA: S1 L2 B1 R3
<b>Context</b>	
EC: L1 C02,09	TC: A1 I2 T2
SS: 6	SC: 7 (na)
LMS: NA (0 %SE)	ASIC: 215

**6520-C SUPERVISOR, SUGAR MILLING AND REFINING OCCUPATIONS**

Supervises and co-ordinates activities of workers engaged in extracting, refining and processing sugar, molasses and sugar by-products from materials such as sugar cane.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May be designated according to type of process, e.g.  
Sugar By-Products Supervisor  
Sugar Mill Supervisor  
Sugar Refinery Supervisor

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y	IP: T6m E8-10y
HC: RCE	RQ: U2 D2 V1 A2
<b>Materials</b>	
SM: D2 P1 T2	EQ: P2 S2 M1
<b>Functions</b>	
MA: A2 P1 D2 R2 M2 L2	
PA: P2 U2 S2 W2 B1 E2	SA: S2 L2 B1 R3-2
<b>Context</b>	
EC: L1 C06,01,09	TC: A1 I1 T2
SS: 7	SC: 9 (4y)
LMS: 90-100 (0 %SE)	ASIC: 2171

**6520-Z SUPERVISORS, FIELD CROPS PRODUCT PROCESSING OCCUPATIONS nec**

This residual group covers supervisory occupations concerned with cereals, field crops and sugar processing not elsewhere classified in Unit Group 6520.

**6521 BREADMAKING, MILLING AND PASTRYCOOKING TRADE AND RELATED OCCUPATIONS**

This unit group covers breadmaking, pastrycooking and milling trade and related occupations.

**Entry Requirements** a trade qualification in a relevant food trade, or Year 10-11 in the case of biscuitmakers, and/or up to 10 years' experience.

**Activities include** controlling the mixing and milling of grains; preparing and baking bread loaves and rolls, biscuits, buns, cakes and pastrygoods.

**6521-A PASTRYCOOK**

Prepares and bakes buns, cakes and pastrygoods, performing any combination of the following duties.

Checks cleanliness and operation of equipment. Operates pastry dough baking and rolling equipment. Weighs and mixes ingredients for doughs and cake mixes. Mixes and kneads dough by hand or using machines. Allows doughs to mature. Cuts, moulds and shapes dough preparatory to baking. Mixes a variety of pastry fillings. Glazes buns and pastries before or after baking, and decorates cakes. Monitors forming machines for crumpets, muffins and wafers. Loads ovens, monitors temperature and appearance of products, and controls baking time. Unloads ovens and cools products. Operates machines which finish baked products. Directs the activities of assistants.

May also perform the duties of a baker. May be the only pastrycook in an establishment and perform routine maintenance, or specialise in cake decorating and be designated accordingly,

Singlehand Pastrycook      Cake Decorator

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE10y	IP: E4y
HC: RCA	RQ: D2 V2
<b>Materials</b>	
SM: D2 T1	EQ: S1 M1 W1

**Functions**

MA: P2 D2 R3 M3 L3	
PA: P2 U1 C2 H1 W1 E3	SA: S1 L2 I2 B2 R4
<b>Context</b>	
EC: L1 C02,08,01	TC: A1 I1 T2
SS: 7	SC: 9 (4 y)
LMS: 2000 (5 %SE)	ASIC: 2162

**6521-B BAKER  
Bread Baker; Operative Baker**

Prepares and bakes many types and varieties of bread loaves and rolls, including fancy breads.

Checks sanitising of baking equipment, and the temperature, humidity and operation before production run. Weighs ingredients, forms, re-forms, proves and places dough into tins or onto trays. Loads tins or trays into proofers and then into ovens, controlling temperature. Monitors all machinery and the bread appearance to determine baking time. Unloads ovens, arranges depanning and cooling of bread, and co-ordinates successive bakings. Performs cleaning duties at end of shift and checks quality of raw materials.

May also perform the duties of a doughmaker or pastrycook. May perform routine maintenance. May be the only baker in an establishment and be designated accordingly,  
Singlehand Baker

May specialise in producing specified dough mixtures for further processing and be designated accordingly,  
Doughmaker

#### Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE10y	IP: E4y
HC: RC	RQ: S2 D2 V2
<b>Materials</b>	
SM: D2 T1	EQ: S1 M1 W1
<b>Functions</b>	
MA: P2 D3 R3 M3 L3	
PA: U1 C2 H1 W1 E3	SA: S1 L2 I2 B2 R4
<b>Context</b>	
EC: L1 C02,01,09	TC: A1 I1 T2
SS: 7	SC: 9 (4 y)
LMS: 4500 (5 %SE)	ASIC: 2161

### 6521-C GRAIN MILLER

#### Cereal Miller

Controls the mixing and milling of grains, and supervises workers to produce flour or other products and by-products specified in the milling program.

Receives production specifications from grain milling supervisor. Connects spouting, chutes and elevators linking the rollers, sieves and screens to set up the milling flow system. Adjusts feed gates on silos to provide the required mixture and flow rate of grain, and adjusts moisturising equipment. Operates equipment which adds other ingredients and monitors the bagging of flour and other products and by-products. Adjusts and monitors the setting of all rollers to produce the size of the product required. Monitors product quality by taking and inspecting samples. Supervises activities and relief of other mill workers on the shift.

May make test doughs and bread. May be the only miller in a small mill and perform some tasks of head miller and of other milling assistants. May specialise in the production milling of flour, rice or starch and be designated accordingly,

Flour Miller                      Rice Miller  
Starch Miller

#### Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP: T6-12m E2-6y
or FP: GE10-11y	IP: T1y E10y
HC: RIE	RQ: U2 V1 A1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S1 M1 W2
<b>Functions</b>	
MA: A2 P2 D2 R3 M3 L3	
PA: P1 U2 C2 W1 B1 E2	SA: S1 L2 B1 R4-3
<b>Context</b>	
EC: L1 C02,09,04	TC: A1 I1
SS: 6	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 215

### 6521-D STOCKFEED MILLER

Controls the process of mixing and treating grain and by-products, and supervises workers in the production of a variety of stockfeed pellets and mashies.

Receives daily production and storage schedule. Sets up processing system, storage bins or bagging process. Controls hammer mills or rolling machines and the flow rate of grain through them. Supervises the activities of other workers, and the adherence to formulae and moisture content. Supervises changes from one batch to another and the cleaning of machinery and implements. Monitors grain infestation control program. Maintains production data and checks the quantities of ingredients. Receives bulk raw materials into storage outside of normal hours.

May operate a computer console which controls a completely automated process. May take samples and conduct tests for factors which affect storage and production. May hold a boiler attendant's certificate and fire and maintain a steam boiler.

#### Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP: T6-12m E2-6y
or FP: GE10-11y	IP: T1y E10y
HC: RCE	RQ: U2 D2 V1 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N2 M1
<b>Functions</b>	
MA: I2 P1 D2 R3 M2 L2	
PA: P2 U2 C2 W1 B1 E2	SA: S1 L2 B1 R4-3
<b>Context</b>	
EC: L1 C02,09,04	TC: A1 I1 T1
SS: 5	SC: 7 (na)
LMS: NA (0 %SE)	ASIC: 2151,2175

### 6521-E BISCUITMAKER

Makes biscuits by either mixing ingredients, operating forming machines or controlling oven baking.

Receives production schedule, and checks cleanliness and functioning of machinery. Prepares and weighs ingredients to prescribed recipes. Loads ingredients into mixing machines, controls mixing time and transfers dough to tempering room. Operates machines which roll and mould dough or cut biscuits of the shape and size required and recycles dough offcuts. Changes and adjusts moulding dies, cutters or rollers on biscuit forming machines. Mixes cream filling ingredients and operates machinery to join cream biscuits. Monitors oven temperature and biscuit appearance, and adjusts heating and belt speed to bake biscuits to specifications.

May specialise in a particular aspect of production and be designated accordingly, e.g.

Biscuit Baker                      Biscuit Mixer  
Specialty Baked Products Maker  
Travelling Ovensperson (Biscuits)

#### Job Content Factors

<b>Workers</b>	
FP: GE10-11y	IP: T6-18m E6m
HC: RC	RQ: D2 V2
<b>Materials</b>	
SM: D2 T1	EQ: P2 S1 M1 W1
<b>Functions</b>	
MA: D3 R3 M3 L3	
PA: U1 H1 W1 E3	SA: S1 L2
<b>Context</b>	
EC: L1 C09,01	TC: A1 I1 R2
SS: 4	SC: 4 (4 y)
LMS: NA (0 %SE)	ASIC: 2163

6522 APPRENTICE BREADMAKING, MILLING AND PASTRYCOOKING TRADE OCCUPATIONS

This unit group covers breadmaking, pastrycooking and cereal milling apprentice occupations.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

6522-A APPRENTICE PASTRYCOOK

Receives instruction and training in the trade of pastrycooking.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

Job Content Factors

<i>Workers</i>	
FP: GE10y	IP:
HC: RCA	RQ: D2 V2
<i>Materials</i>	
SM: D2 T1	EQ: S1 M1 W2
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 U1 C2 H1 W1 E2	SA: S1 L2 I2
<i>Context</i>	
EC: L1 C02,01,09	TC: A1 I1 T2
SS: 2	SC: 5 (4 y)
LMS: NA (0 %SE)	ASIC: 2161

6522-B APPRENTICE BAKER  
Apprentice Bread Maker

Receives instruction and training in the trade of making and baking bread.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

Job Content Factors

<i>Workers</i>	
FP: GE10y	IP:
HC: RC	RQ: D2 V2

Materials

SM: D2 T1	EQ: S1 M1 W2
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C2 H1 W1 E3	SA: S1 L2 I2
<i>Context</i>	
EC: L1 C02,01,09	TC: A1 I1 R2
SS: 2	SC: 5 (4 y)
LMS: NA (0 %SE)	ASIC: 2161

6522-C APPRENTICE CEREAL MILLER

Receives instruction and training in the trade of cereal milling.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May undertake an apprenticeship in a particular aspect of milling and be designated accordingly, e.g.

Apprentice Miller (Flour)      Apprentice Miller (Rice)  
Apprentice Miller (Starch)      Apprentice Miller (Stockfeed)

Job Content Factors

<i>Workers</i>	
FP: GE10y	IP:
HC: RCS	RQ: D2 V1
<i>Materials</i>	
SM: D2 I2 P2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: P1 U2 C1 H2 W1 B1 E3	SA: S1 L2
<i>Context</i>	
EC: T2 L1 C02,09,04	TC: A1 I2
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 215

6523 BREADMAKING AND PASTRYCOOKING ASSISTANT OCCUPATIONS

This unit group covers occupations concerned with assisting in the preparation and baking of bread loaves and rolls, buns, cakes and pastrygoods.

**Entry Requirements** Year 10.

**Activities include** assisting a pastrycook in the production of a variety of pastrygoods, cakes, buns and crumpets; and assisting a baker in the production of bread loaves, rolls and breadcrumbs.

**6523-A ASSISTANT PASTRYCOOK**

Assists a pastrycook in the production of a variety of pastrygoods, cakes, buns and crumpets, performing any combination of the following duties.

Handles and weighs ingredients, and operates mixer to make dough or cake mixtures. Operates machines which prepare and mix vegetables, meat and fruit for pastrygoods fillings. Operates pastry rolling machines and transfers rolls of pastry to other machines. Fills and shapes pastrygoods by machine or hand. Coats products with glazes, icing or cream by machine or hand. Transfers trays of products between processes, or transfers them to delivery trays. Loads and unloads ovens and empties, cleans and regreases baking trays/tins. Wraps and packages products by hand or machine.

May load and unload freezers and produce puff pastry, doughs or mixtures for packaging.

**Job Content Factors****Workers**

FP: GE10y

IP: T6-48m

HC: RA

RQ: D2 V2

**Materials**

SM: T1

EQ: S1 M1 W1

**Functions**

MA: D3 R4 L3

PA: P2 C2 H1 W1 E3

SA: S1 L2 I2

**Context**

EC: L1 C01,02,09

SS: 6

TC: A1 I1 R1 T2

SC: 8 (2 y)

LMS: NA (0 %SE)

ASIC: 2162

**6523-B ASSISTANT BAKER  
Boardhand**

Assists a baker in the production of bread loaves, rolls and breadcrumbs.

Checks cleanliness of baking equipment before production run. Forms and places dough into tins or trays by hand or machine. Loads tins or trays into ovens, unloads and depans the bread. Cleans and regreases tins and trays. Performs cleaning duties at the end of the shift. Handles raw materials as required.

**Job Content Factors****Workers**

FP: GE10y

HC: R

IP: T6-48m

RQ: D2 V2

**Materials**

SM: T1

EQ: S2 M1 W2

**Functions**

MA: D3 R4 L3

PA: U1 C2 H1 W1 E3

SA: S1 L2

**Context**

EC: L1 C01,02,09

SS: 6

TC: A1 I1 R2 T2

SC: 8 (2 y)

LMS: NA (0 %SE)

ASIC: 2151

**6524 FIELD CROPS PRODUCT PROCESSING MACHINE OPERATORS**

This unit group covers machinery and equipment operators concerned with processing cereals, sugar, tobacco and other field crops.

**Entry Requirements** Year 9-11 in most cases, plus up to 6 years' experience.

**Activities include** controlling and operating machinery to produce flour, stockfeed mixes, margarine, sugar crystals, cereal foods and barley and other grain malts, to refine raw vegetable oil and sugar, and to process tobacco and manufacture tobacco products.

**6524-A CEREAL MILLING MACHINE  
OPERATOR**

Controls the operation of a variety of grain cereal cleaning and milling machinery, and the production of mill stock.

Inspects cleanliness of silos and operation of machinery. Monitors the operation of any combination of the following machines: grain elevators, cleaning screens, millstock separating screens, and flour sieves. Monitors product quality by inspecting samples, makes adjustments, clears blockages and shovels up spilt chokes. Inspects, replaces and repairs equipment as required. Cleans equipment and floor, and maintains infestation control program. Relieves other workers as directed.

May bag some by-products. May specialise in operating equipment on specified floors of treatment in the mill and be designated accordingly, e.g.

Binsman/woman, Grain

Grain Shooter

Purifierman/woman

Screensman/woman

Smutterman/woman

Topman/woman

**Job Content Factors****Workers**

FP: GE10-11y

HC: RC1

IP: T3-12m E1-6y

RQ: D2 V1 A2

**Materials**

SM: D2 T1

EQ: S1 M1

**Functions**

MA: D3 R3 M3 L3

PA: P2 U1 C2 W1 B1 E3

SA: S1

**Context**

EC: L1 C09,02,04

SS: 2

TC: A1 I1 R2

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 215

**6524-B STOCKFEED MILLING MACHINE  
OPERATOR**

Operates machinery which mixes ingredients or produces pellets or mashes to special formulation for stockfeeds.

Receives production schedule from stockfeed miller and checks cleanliness and function of machinery. Refers to recipe book and current replacement ingredients, and weighs precise amounts into mixing drum. Either stores batch or transfers to drum mixer, then transfers batch to pellet feed tank or mash

storage. Checks the fitting of correct die and piping to storage bin. Monitors pellet presses, making adjustments to conform to specifications. Assists in changing dies and cleans them after each batch. Cleans machines and work area, and implements infestation control program.

May relieve other workers. May specialise in operating one kind of machine and be designated accordingly, e.g.

Stockfeed Mixer                      Stockfeed Panel Operator  
Stockfeed Press Operator          Stockfeed Vitamin Blender

# **Job Content Factors**

<i>Workers</i>	
FP: GE10-11y	IP: T2-6m E1-4y
HC: RCI	RQ: U2 D2 V1 A2
<i>Materials</i>	
SM: D2 T1	EQ: P2 S1 M1 K2
<i>Functions</i>	
MA: I2 P2 D3 R3 M3 L3	
PA: P2 U1 C2 H1 W1 B1 E3	SA: S1
<i>Context</i>	
EC: L1 C09.02.04	TC: A1 I1 R2
SS: 5	SC: 7 (na)

LMS: NA (0 %SE)

ASIC: 2151,2175

## **6524-C OILSEED PROCESSING OPERATOR**

Controls equipment which extracts raw oil from various oil seeds or refines it.

Checks sanitising and operation of equipment before use. Unloads oilseeds, tests a sample, and weighs and transfers load to storage silos. Operates seed cleaning and grading machinery. Operates dehulling machinery, and stores or bags husks. Operates oilseed cracking, cooking, conditioning and flaking roller equipment making adjustments as required. Operates either a screw press extractor or solvent extractor and directs transfer of meal cake. Operates raw oil filtering and slow cooling, oil evaporators and meal desolventiser plant. Controls temperature and the caustic soda flow rate and removes soapstock by settling or centrifuging. Bleaches oil, and dries and deodorises. Pumps refined oil to inert-atmosphere, slow-cooling storage. Treats soapstock with acid, then washes, dries and stores the acid oils. Takes samples for analysis at different stages of refining for laboratory or inplant tests. Cleans equipment and work area. Keeps production records.

May perform other refining processes involving non-edible oils.

# **Job Content Factors**

<i>Workers</i>	
FP: GE10-11y	IP: T1-3y E1-3y
HC: RC	RQ: D2 V1 A2
<i>Materials</i>	
SM: D2 T1	EQ: P2 S1 M1 W2
<i>Functions</i>	
MA: A2 D2 R3 M3 L3	
PA: P2 U1 H2 W1 B1 E3	SA: S1 L2
<i>Context</i>	
EC: L1 C01.06.02	TC: A1 I1 R2
SS: 4	SC: 6 (2 y)

LMS: NA (0 %SE)

ASIC: 2140

## **6524-D SUGAR BOILER Sugar Pan Operator**

Controls vacuum pans (boilers) to concentrate sugar liquor and grow sugar crystals of specified size in sugar mills and refineries.

Closes vacuum seals on pans, fills pans with specified amount of sugar liquor and admits steam to heating units. Observes boiling process through glass panel on side of boiler and adjusts steam valves to maintain required temperature. Examines sample of sugar crystals to determine grain size. Adjusts flow of liquor to control growth of crystals. Breaks vacuum seal and shuts off steam to stop boiling when

specified concentration and size of sugar crystals are achieved. Opens valve in pan to release contents into holding tank. Hoses tanks and surrounding area, and performs other cleaning duties. Records production data such as time started and boiling time.

# **Job Content Factors**

<i>Workers</i>	
FP: GE10-11y	IP: T6-12m E1-6y
HC: RCI	RQ: S2 D1 V1 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 M1 K2
<i>Functions</i>	
MA: A2 P2 D2 R2 M3 L2	
PA: P1 U2 C2 S2 W2 B1 E1	SA: S1 B2 R4
<i>Context</i>	
EC: L1 C01.06	TC: A1 S2 I1 T2
SS: 6	SC: 7 (2 y)
LMS: 200 (0 %SE)	ASIC: 2171

## **6524-E SUGAR PROCESSING MACHINE OPERATOR**

Controls equipment, in either a sugar mill or refinery, which processes sugar solutions or packages sugar and its by-products.

Receives production schedule and checks equipment at the start of the shift. Inspects recording charts or gauges and adjusts treatment conditions manually or from a central console. Monitors treatments such as melting and blending, temperature control, weighing, filtering, decolourising, centrifuging, drying, size grading and packaging. Performs reconditioning of chemicals and equipment at prescribed times. Takes and inspects samples and records production data.

May perform special start up and shut down procedures. May specialise in particular functions and be designated accordingly, e.g.

Melthouse Attendant                      Sugar Dryer Operator  
Sugar Packaging Operator                  Treacle Maker  
Decolourising Operator (Sugar Processing)  
Fugal Operator (Sugar Processing); Centrifuge Operator  
(Sugar Processing); Fugelman/woman  
Sugar Mill Weighbridge Operator  
Effet Boiler Operator; Effet Man/Woman; Evaporator  
Boiler

# **Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP: T3-12w E0-2y
HC: RC	RQ: D2 V1 A2
<i>Materials</i>	
SM: T1	EQ: S1 N2 M1 K2
<i>Functions</i>	
MA: P2 D3 R4 M3 L3	
PA: P2 U1 H2 W1 B1 E3	SA: S1
<i>Context</i>	
EC: L1 C09.06.01	TC: A1 I1 R2
SS: 5	SC: 6 (4 y)
LMS: 200-350 (0 %SE)	ASIC: 2171

## **6524-F MALTSTER Malt Process Worker**

Performs any combination of the following duties in the production of barley and other grain malts.

Maintains the different treatments of batches of malt. Operates equipment which transfers grains as required. Operates grain cleaning equipment, bags husks and stores grain in silos. Loads grain into steep vessel, controls water and airflow in the steeping process, and unloads and cleans steep. Loads germinating vessel and controls alternate steeping, blowing and turning of malt. Controls temperature and airflow in final kiln drying. Tends malt bagging machine, storage or bulk leading of containers. Takes samples for analysis and cleans work area.

May operate a peat kiln and may assist with maintenance during shutdown. May be the only maltster on a shift and be responsible for maintaining the normal treatments and planned changes, notifying the malt supervisor of abnormal production conditions and be designated accordingly, e.g.

Malt Shiftperson

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: T6-12m
HC: R	RQ:
<i>Materials</i>	
SM: T1	EQ: N1 M1 W2
<i>Functions</i>	
MA: D2 R4 L3	
PA: U1 H1 W1 B1 E3	SA: A1 S1
<i>Context</i>	
EC: L1 C02,08,01	TC: A1 I2 R1
SS: 4	SC: 4 (4 y)
LMS: 350 (0 %SE)	ASIC: 2153

### 6524-G BREAKFAST CEREAL MAKER

Controls milling and heating equipment which processes conditioned grain into a variety of cereal foods, performing any combination of the following duties.

Checks cleanliness and function of equipment before production run. Monitors the temperature and storage of conditioned grain. Adjusts grain flow rate and the setting of roller mills. Controls a cereal grinder and size grader, and the collection of germ, husks, flour and grits, and cereal flow rate. Controls moulding machines which shape cereal products. Controls popping vessels using very high pressure steam. Controls temperature of ovens which cook the cereal products. Observes product before packaging to adjust treatment if necessary.

May specialise in moistening and cooking batches of grain for further processing into cereal foods and be designated accordingly,

Breakfast Cereal Cooker

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: T6-17w E3-12m
HC: R	RQ: D2 V1 A2
<i>Materials</i>	
SM: D2 T1	EQ: S1 M1
<i>Functions</i>	
MA: P2 D2 R3 M3 L3	
PA: P2 U1 H2 W1 B1 E3	SA: A2 S1 B2 R4
<i>Context</i>	
EC: L1 C09,01,08	TC: A1 I2 R2
SS: 3	SC: 0 (na)
LMS: NA (0 %SE)	ASIC: 2153

### 6524-H TECHNICAL OPERATOR, TOBACCO PRODUCTS MANUFACTURING

Sets up, monitors, adjusts and performs basic maintenance and repair tasks on one or more of a range of cigarette, filter and other tobacco products making or packing machines.

Studies product specifications or other instructions and determines task requirements. Sets up or adjusts machine to regulate such variables as length and diameter of particular brand of cigarette, printed brand name or mode of packaging. Monitors machine's operation to detect signs of malfunctioning, such as excess noise or vibration, jammed feeder mechanism, electronic or graphical production readouts which fall outside acceptable limits, substandard materials or faulty output. Applies knowledge of machine's operation to locate likely source of fault, and repairs or adjusts mechanism accordingly, using hand tools. Refers more complex problems

to maintenance fitter or electronics technician for rectification. Undertakes regular maintenance tasks. Maintains records of action undertaken.

May be assisted by and supervise tobacco processing and tobacco products manufacturing machine attendants in the performance of their duties.

#### Job Content Factors

<i>Workers</i>	
FP: GE9-10y	IP: T9-12m
HC: R	RQ:
<i>Materials</i>	
SM: D2 T1	EQ: P2 S1 M2
<i>Functions</i>	
MA: A2 D2 R3 M3 L2	
PA: P2 U2 S2 W1 E3	SA: S2 L1 B2 R4
<i>Context</i>	
EC: L1 C09	TC: A1
SS: 3	SC: 5 (vy)
LMS: 50-150 (0 %SE)	ASIC: 2210

### 6524-I MACHINE ATTENDANT, TOBACCO PROCESSING AND TOBACCO PRODUCTS MANUFACTURING

Operates or assists in the operation of one or more of a range of automatic or semi-automatic machines designed to process tobacco or manufacture tobacco products such as cigarettes, cigars and packaged pipe tobacco, performing any combination of the following duties.

Selects tobacco grades appropriate to product to be manufactured from labelled stock, according to predetermined formula or other basic specifications. Loads raw materials, such as tobacco, paper, filters, casing fluid or packaging materials, into feeder mechanism or starts and monitors conveyor mechanism which feeds material into machine. Starts machine, activates hand or foot controls where applicable and monitors machine's operation. Removes and stacks machine's output. Controls tobacco condition by regulating heat, steam, flavour or casing. Corrects obvious minor faults, such as misaligned paper or excessively moist or dry tobacco, and refers more complex faults or test results falling outside allowable limits to tobacco products manufacturing technical operator for rectification.

May be designated according to machine operated or task undertaken, e.g.

Blend Assembly Attendant Casing Drum Attendant  
Tobacco Dryer Attendant  
Steam Conditioning, Rolling and Cutting Machine Attendant

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T2-4w
HC: R	RQ:
<i>Materials</i>	
SM: T1	EQ: S2 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: P2 U1 H2 S2 W1 E2	SA: S2 L1
<i>Context</i>	
EC: L1	TC: A1 R1
SS: 2	SC: 4 (vy)
LMS: 2000-3000(0 %SE)	ASIC: 2210

### 6524-Z FIELD CROPS PRODUCT PROCESSING MACHINE OPERATORS nec

This residual group covers machine operators concerned with cereals, sugar, tobacco and other field crops processing not elsewhere classified in Unit Group 6524, e.g.

Bagasse Loft Operator (Sugar Milling)

6525 BASIC FIELD CROPS PRODUCT PROCESSING OCCUPATIONS

This unit group covers basic cereals, sugar, tobacco and other field crops processing occupations.

**Entry Requirements** no formal requirements.

**Activities include** assisting in the operation of a bread-room in a bakery; and performing a variety of duties related to the production of biscuits.

6525-A BREAD ROOM HAND

Performs any combination of the following duties in the bread-room of a bakery.

Loads trolleys of baked products, wheels into bread cooler, removes them and transfers products into baskets, or onto trays or other trolleys. Tends and feeds automatic cooling machine. Tends, feeds and offbears slicing and wrapping machines. Cleans machines and work area. Assists in assembling order to timing plan. Unloads vans and disposes of unsold bread. Tends machinery which produces and packages breadcrumbs.

Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T4-6w
HC: RC	RQ: D2 V2
<i>Materials</i>	
SM: D2 T1	EQ: N2 M2 W1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H1 W1 E2	SA: S1 L2
<i>Context</i>	
EC: L1 C01	TC: A1 I1 R2 T2
SS: 6	SC: 6 (na)
LMS: NA (0 %SE)	ASIC: 2161

6525-B BISCUIT PROCESSER

Performs any combination of the following manual duties in the production of biscuits.

Inspects quality and sorts biscuits. Transfers biscuits from production lines either into small bins for temporary storage, or feeds packaging machines. Assembles or arranges assortments of biscuits for packaging. Cleans and sanitises equipment and work area. Assists biscuitmakers in refining ingredients, and in mixing, forming, baking and joining biscuits.

Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1-2m
HC: R	RQ: D2 V1
<i>Materials</i>	
SM: T1	EQ: N2 W2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 H1 W1 E2	SA: S2 L1
<i>Context</i>	
EC: L1	TC: A1 R1
SS: 2	SC: 3 (2 y)
LMS: NA (0 %SE)	ASIC: 2163

6525-Z BASIC FIELD CROPS PRODUCT PROCESSING OCCUPATIONS nec

This residual group covers basic processing occupations concerned with cereals, sugar, tobacco and other field crops not elsewhere classified in Unit Group 6525, e.g.

- Extraneous Matter Hand (Sugar Milling)
- Yeast Process Worker

## MINOR GROUP 653

### DAIRY PRODUCT PROCESSING OCCUPATIONS

Dairy Product Processing Occupations are classified in the following unit groups.

- 6530 Supervisors, Dairy Product Processing Occupations
- 6531 Dairy Trade and Related Occupations
- 6532 Apprentice Dairy Trade Occupations
- 6533 Dairy Product Processing Machine Operators
- 6534 Basic Dairy Product Processing Occupations

#### *Related Occupations*

Occupation 7030-D : Milk Tanker Operator

#### 6530 SUPERVISORS, DAIRY PRODUCT PROCESSING OCCUPATIONS

This unit group covers supervisory occupations in dairy product processing.

**Entry Requirements** a trade qualification in a relevant dairy trade where supervising tradespersons, and/or 2-10 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### 6530-A SUPERVISOR, DAIRY PRODUCT PROCESSING OCCUPATIONS

Supervises and co-ordinates activities of workers engaged in processing raw milk and cream to make pasteurised milk and cream, butter, cheese, egg pulp, ice cream and other dairy products.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers involved in a particular activity and be designated accordingly, e.g.

- Supervisor, Butter Making Occupations
- Supervisor, Cheese Making Occupations
- Supervisor, Egg Pulping Occupations
- Supervisor, Ice Cream Making Occupations
- Supervisor, Milk and Cream Processing Occupations

Supervisor, Special Dairy Product Making Occupations

#### *Job Content Factors*

##### *Workers*

FP: GE10-11y PSP2-4y(T) / (B)

or FP: GE10-11y

HC: RIE

IP: T3m E2-4y

IP: T3-6m E6-10y

RQ: U2 D1 V1 A2

##### *Materials*

SM: D1 P2 T2

EQ: M2 K2

##### *Functions*

MA: A1 P1 D2 R2 M3 L2

PA: P2 S2 W2 E2

SA: S1 L1 I2 B2 R2-4

##### *Context*

EC: L1 C01,08,09

SS: 4

TC: A1 I2 T1

SC: 5 (na)

LMS: NA (0 %SE)

ASIC: 212

#### 6531 DAIRY TRADE AND RELATED OCCUPATIONS

This unit group covers occupations concerned with processing milk and cream.

**Entry Requirements** a trade qualification in a relevant dairy trade, or a certificate or diploma in dairy technology, or a certificate of competency following a period of on-the-job training.

**Activities include** controlling pasteurising, buttermaking and cheesemaking equipment; and directing activities of apprentices, assistants and other workers.

**6531-A BUTTERMAKER**

Controls equipment to make butter using either batch or continuous process churning method.

Connects sanitary piping between cream storage vat and churn, and activates controls to pump sterilising solution through equipment prior to commencement of churning. Starts flow of cream to churn or continuous buttermaker. Observes separation of butter-milk from butter through window, and pumps buttermilk from churn. Tests butter for moisture, salt content and consistency, using testing apparatus, and adjusts equipment for conformity with specifications. Removes butter from churn and loads it into moulding and packaging machine hopper, or places empty cartons in packaging unit at discharge end of continuous process churn. Directs the activities of butter workers. Identifies batches or processing data and test results. Examines smell, taste and texture, and tests to determine grade.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE10-11y PSP1-3y(PPC) / (B)	IP: T1-3y
HC: RIE	RQ: U2 D1 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 M1 K2
<b>Functions</b>	
MA: P1 D2 R3 M3 L2	
PA: P1 U2 H2 W1 E3	SA: S1 B1 R3-4
<b>Context</b>	
EC: L1 C08,01,09	TC: A1 I2 T2
SS: 5	SC: 0 (4 y)
LMS: NA (0 %SE)	ASIC: 2122

**6531-B CHEESEMAKER**

Controls equipment that cooks milk and specified ingredients to make processed or natural cheese, and forms and cures cheese according to specifications.

Responsible for, and may activate panel controls to pasteurise milk, and separate it to obtain prescribed butter fat content. Turns valves to fill vats or other equipment with milk for

further heating and agitation according to variety of cheese. Adds measured amounts of bacterial culture into milk. Adds and stirs prescribed quantity of rennet (coagulant) into mixture as required. Moves controls on equipment to start agitators, and mixes ingredients until specified level of acidity is reached. Removes and tests samples of milk mixture. Stops agitators to allow mixture to form curd. Pulls curd knives through curd or uses handscoop to separate curd and release whey for some varieties. Observes thermometers, adjusts steam valve and starts agitators to stir and cook curd until desired firmness and texture are attained. Directs other workers to add ingredients such as seasonings if required, and to cut, pile, mill and mould curd into specified cheese shapes. Samples the cheese after manufacture and during maturation (if applicable) for taste, smell and texture for quality grades. Records ingredients used, identifies batches or processing data and test results. Calculates variations in time cycles and quantities of ingredients for subsequent batches.

May propagate specified bacterial cultures into bulk pasteurised milk or whey to make bulk bacterial culture. May specialise in making a particular variety of cheese or operating cheese making equipment and be designated accordingly, e.g.

Cottage Cheesemaker      Processed Cheesemaker  
Cheesemaker (Automated Plant)  
Starter Controller, Cheesemaking

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE10y PSP2-3y(PPC) / (B)	IP: T2-4y
HC: RIE	RQ: U1 D1 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 M1 K1
<b>Functions</b>	
MA: P1 D2 R3 M3 L2	
PA: U1 H2 W1 E3	SA: S1 B1 R3-4
<b>Context</b>	
EC: L1 C08,01	TC: A1 I2 T2
SS: 5	SC: 0 (na)
LMS: NA (0 %SE)	ASIC: 2123

**6532 APPRENTICE DAIRY TRADE OCCUPATIONS**

This unit group covers apprentice dairy trade occupations.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

**6532-A APPRENTICE BUTTERMAKER**

Receives instruction and training in the trade of buttermaking.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
HC: RIE	RQ: U2 D1 V1
<b>Materials</b>	
SM: D2 T1	EQ: S1 M1 K2

**Functions**

MA: D3 R3 M3 L2	
PA: P1 U2 H1 W1 E3	SA: S1
<b>Context</b>	
EC: L1 C08,09,01	TC: A1 R2
SS: 1	SC: 5 (4 y)
LMS: NA (0 %SE)	ASIC: 2122

**6532-B APPRENTICE CHEESEMAKER**

Receives instruction and training in the trade of cheesemaking.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

##### Workers

FP: GE10y

IP:

HC: RIE

RQ: U2 D1 V1

##### Materials

SM: D2 P2 T1

EQ: S1 M1 K2

##### Functions

MA: D3 R3 M3 L2

PA: U1 H1 W1 E3

SA: S1

##### Context

EC: L1 C08,09

TC: A1 R2

SS: 1

SC: 0 (4 y)

LMS: NA (0 %SE)

ASIC: 2123

## 6533 DAIRY PRODUCT PROCESSING MACHINE OPERATORS

This unit group covers machinery and equipment operators concerned with processing dairy products.

**Entry Requirements** Year 9-11 and up to 2 years' experience, plus, in some cases, a trade qualification or a basic vocational certificate in an appropriate area.

**Activities include** operating machinery and equipment such as pasteurising and homogenising plant; weighing and mixing products; examining and grading processed products; and cleaning and sterilising work areas.

### 6533-A

#### MILK TREATER

##### Milk Processing Equipment Operator

Controls continuous flow or batch equipment to process fresh milk and cream, and specialty dairy products according to standard procedures, performing any combination of the following duties.

Turns valves and starts pumps to facilitate the washing and sterilising of pipes and vats. Starts process pump and equipment, monitors temperature and pressure gauges, and opens valves to transfer milk to separator or clarifier in order to separate cream from milk, through homogeniser to emulsify milk, and through filter to remove sediment. Turns valves to admit steam into separate heating coils or plates to pasteurise milk. Starts pumps to transfer products to bottling or packaging equipment. Records process and production data. Selects, measures and adds ingredients such as yoghurt or flavouring according to recipe. Adds fluids or milk solids to correct mixture of proper butterfat content, as indicated by butterfat tests. Connects pipes between pasteuriser, mixer, homogeniser or cooler units, and activates valve and pump controls to transfer mixtures through equipment onto storage tanks. Collects samples for laboratory analysis or performs analysis where applicable. Activates automatic plant cleaning process. Prepares and ripens bacterial cultures in sterile or skim milk solutions.

May work on a particular stage of processing or on a particular product and be designated accordingly, e.g.

Pasteuriser Operator

Casein Maker

Custard Maker

Dried Milk Product Maker

Yogurt Maker

Market Milk Product Maker

#### Job Content Factors

##### Workers

FP: GE10y PSP3y(T)

IP:

or FP: GE10y

IP: T1y E1-2y

HC: RC

RQ: D1 V1

##### Materials

SM: D2 P2 T1

EQ: S1 M1

##### Functions

MA: P1 D2 R3 M3 L3

PA: P2 U2 C1 H1 W1 E3

SA: S1 L1 B2 R4

##### Context

EC: L1 C01,08,01

TC: A1 I2 R2

SS: 5

SC: 5 (2 y)

LMS: NA (0 %SE)

ASIC: 2121

### 6533-B

#### EVAPORATOR/SPRAY DRYER OPERATOR

Operates and controls evaporating and drying equipment to convert milk, skim milk, buttermilk or whey products into powder of a specified moisture content, composition and properties.

Operates evaporator to concentrate milk prior to entry to dryer. Places charts in temperature and vacuum recorders. Starts dryer heating system, vacuum pump and fan by pressing control buttons, and adjusts dampers. Turns dryer controls and observes gauges to obtain specified temperature and vacuum. Starts pump and turns valves to spray milk into heated vacuum chamber where milk droplets are dried into powder. Tests powder for moisture content. Observes interior walls of chamber through porthole for burner scale, indicating excessive temperature. Adjusts dryer temperature and volume of liquid sprayed into dryer to obtain specified moisture content and prevent contamination of powder by scale. Places container on weigh scale under dryer outlet to fill for shipment. Cleans evaporator and drum.

May operate ancillary equipment used to prepare powders with specific properties. May dry specific product and be designated accordingly, e.g.

Skim/Whole Milk Dryer Operator

#### Job Content Factors

##### Workers

FP: GE9-10y PSP12m(B)

IP: E6-12m

HC: R

RQ: D1 V1

##### Materials

SM: D1 T1

EQ: S1 M1

##### Functions

MA: P1 D3 R3 M3 L3

PA: P2 U2 C1 H1 W1 E3

SA: S1 L2

##### Context

EC: L1 C02,09

TC: A1 R2

SS: 5

SC: 5 (2 y)

LMS: NA (0 %SE)

ASIC: 2125

## 6533-C

**ICE CREAM MAKER**  
**Ice Confection Maker**

Prepares ice cream mixes and operates one or more continuous freezers and associated equipment to make ice cream products.

Assembles pipes and fittings to connect machines. Places novelty dies in filler head, using wrenches. Weighs, measures and dumps ingredients such as powder, colouring, flavouring or syrup into mixing vat, fruit feeder or holder of rippling pump. Starts agitators, beaters, scrapers and pumps, and turns valves to blend and force mixture and air into freezer barrels, and refrigerant into coils. Observes ammeter and pressure gauge on barrel and adjusts controls to proper temperature and speed. Sets feed controls according to freezer speed to ripple ingredients into mixture leaving freezer barrel. Opens valve to transfer contents to filling machine that pumps ice cream into cartons, cups, cones, or moulds for pies, rolls or tarts. Weighs package and adjusts freezer air valve, or filler head to deposit specified quantity of product in container. Cleans equipment between product runs or at conclusion of daily production, using sterilising solution or steam spray.

**Job Content Factors****Workers**

FP: GE10-11y IP: T1y E1y  
HC: RC RQ: D1 V1

**Materials**

SM: D2 P2 T1 EQ: S1 M1

**Functions**

MA: P1 D2 R4 M3 L3  
PA: P2 U2 C1 H2 W1 E3 SA: S1 L1 B2 R4

**Context**

EC: L1 C01,08,09 TC: A1 S2 I2 R2  
SS: 5 SC: 5 (2 y)

LMS: NA (0 %SE)

ASIC: 2124

## 6533-Z

**DAIRY PRODUCT PROCESSING**  
**MACHINE OPERATORS nec**

This residual group covers dairy product machine operators not elsewhere classified in Unit Group 6533.

**6534 BASIC DAIRY PRODUCT PROCESSING OCCUPATIONS**

This unit group covers occupations concerned with performing basic processing duties on dairy products.

**Entry Requirements** no formal requirements.

**Activities include** cleaning equipment; manipulating valves; and performing a variety of duties in cheese making and milk and egg processing plants.

## 6534-A

**DAIRY FACTORY WORKER**

Performs any combination of the following duties in a milk processing or cheese making plant.

Cleans, sanitises and prepares equipment and attaches pipes and fittings to machines as required. Turns valves to facilitate flow of milk and cream into vats or hoppers. Starts and stops machines as directed. Moves containers to storage or shipping areas using hand truck, conveyor or fork lift. Places empty bottles, cases and cans onto conveyor to be transferred to receiving, washing or filling stations. Assists cheesemaker with measuring and adding ingredients such as rennet and cultures to milk. Cuts curd into portions to release whey. Inserts strainer into vat outlet and assembles piping or hose. Opens drain valve and banks curd to side of vat to drain off residual whey, and mat curd. Cuts matted curd into standard slabs, and piles and turns slabs over periodically as directed, to obtain specified acidity and moisture. Feeds slabs into mill to cut curd into chip-like press, and salts curd. Scoops salted curd into forms in press to remove whey and to shape cheese. Waxes or wraps cheese and places in temperature controlled room, as directed, for curing. Cuts cheese blocks into specified portions.

May specialise in milk processing or cheese making duties and be designated accordingly,

Assistant Cheesemaker Milk Processing Worker  
Cheese Factory Worker

**Materials**

SM: T1 EQ: S1 N2 M2

**Functions**

MA: D3 R4  
PA: U1 H1 W1 B2 E3 SA: S1 L2

**Context**

EC: L1 C09,01,08 TC: A1 I2 R2  
SS: 3 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 212

## 6534-B

**EGG PROCESS WORKER**

Performs a variety of duties in the processing of eggs, the production of egg pulp, and associated packaging.

Inspects and picks out defective eggs from conveyor belt. Tends machines which clean, stamp, grade and pack eggs. Performs egg candling for limited periods by inspecting eggs which are back-lit by high intensity light. Stacks cartons of eggs into boxes or trolleys for storage or transport. Breaks eggs and separates contents for pulping. Monitors machines which produce egg pulp or dry egg powder, and freeze or package it.

**Job Content Factors****Workers**

FP: GE NFR IP: T1-5w  
HC: R RQ: D2 V1

**Materials**

SM: T1 EQ: N1 M1 W2

**Functions**

MA: D2 R3 M3 L3  
PA: U1 H1 S2 W2 E3 SA: S1 L2

**Job Content Factors****Workers**

FP: GE NFR IP: T2-4m  
HC: R RQ: D1 V1

*Context*

EC: L1 C05

TC: A1 I2 R2

SS: 3

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 4765

**6534-Z****BASIC DAIRY PRODUCT PROCESSING  
OCCUPATIONS nec**

This residual group covers occupations concerned with performing basic processing duties on dairy products not elsewhere classified in Unit Group 6534.

**MINOR GROUP 654**  
**FRUIT AND VEGETABLE PROCESSING OCCUPATIONS**

Fruit and Vegetable Processing Occupations are classified in the following unit groups.

- 6540 Supervisors, Fruit and Vegetable Processing Occupations
- 6541 Fruit and Vegetable Processing Machine Operators
- 6542 Basic Fruit and Vegetable Processing Occupations

**6540 SUPERVISORS, FRUIT AND VEGETABLE PROCESSING OCCUPATIONS**

This unit group covers supervisory occupations concerned with processing fruit and vegetables.

**Entry Requirements** Year 10-11 plus 4-6 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**6540-A SUPERVISOR, FRUIT AND VEGETABLE PROCESSING OCCUPATIONS**

Supervises and co-ordinates the activities of workers engaged in grading, preparing, preserving or mixing fruit and vegetable food products.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May be designated according to specialisation of workers supervised, e.g.

- Preparation Supervisor, Fruit and Vegetable Processing
- Preserving Supervisor, Fruit and Vegetable Processing

Job Content Factors	
Workers	
FP: GE10-11y	IP: T3-6m E4-6y
HC: RIE	RQ: D2 V1 A2
Materials	
SM: D2 P1 T2	EQ: S2 M1
Functions	
MA: A2 P1 D2 R2 M3 L2	
PA: P2 U2 S2 W1 E2	SA: S2 L1 B1 R2-3
Context	
EC: L1 C09,08	TC: A1 S2 I2 T1
SS: 4	SC: 5 (na)
LMS: NA (0 %SE)	ASIC: 213

**6541 FRUIT AND VEGETABLE PROCESSING MACHINE OPERATORS**

This unit group covers machinery and equipment operators concerned with processing fruit and vegetables.

**Entry Requirements** Year 10-11 plus 1-2 years' experience.

**Activities include** making jams and sauces; and operating fruit and vegetable machines.

**6541-A JAM AND SAUCE COOK**  
**Fruit Conserve Cook**

Boils mixture of prepared ingredients to make jams and sauces or pastes for bottling or canning.

Cleans and sterilises equipment before production run. Inspects quality, and weighs batches of prepared fruit or vegetables and quantities of other ingredients. Adds components to kettle in specified sequence, and monitors

temperatures. Operates agitators and controls temperature to boil off excess water without scorching contents or kettle. Tests a sample, adds ingredients as required, verifies composition as specified and transfers to feed tanks for canning or bottling. Keeps production records, monitors stocks of ingredients and orders resupply.

May operate a continuous kettle process or vacuum boilers. May boil other solutions to make concentrated pastes or pulps and be designated accordingly, e.g.

Chutney Maker                      Fruit Pulp Cook  
Mustard Pickle Maker              Tomato Products Cook

#### Job Content Factors

<i>Workers</i>	
FP: GE10-11y	IP: T2-3m E2y
HC: RCS	RQ: D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 M1 W2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L3	
PA: P2 U1 H1 W1 E3	SA: A2 S1 B2 R4
<i>Context</i>	
EC: L1 C01.08.09	TC: A1 S2 I2 R2
SS: 3	SC: 3 (na)
LMS: NA (0 %SE)	ASIC: 2131

### 6541-B FRUIT AND VEGETABLE MACHINERY OPERATOR

Controls the operation of one or more machines processing fruit and vegetables, performing any combination of the following duties.

Obtains production schedule detailing varieties of produce and the quantity, quality and method of processing required. Checks cleanliness and operation of equipment, and supply of

treatment chemicals prior to production run. Operates machine, monitors quality of incoming and outgoing produce, adjusts treatment or consults with supervisor. Operates size grading, washing, drying or dehydrating equipment. Operates automatic preparation machines which peel, core, slice, dice, pit or cut fruit and vegetables. Operates chemical treatment such as waxer and lye peeler. Operates heat or blanching equipment. Cleans and sanitises equipment and work area. Operates bin tipplers, controls flow rate of produce and frees blockages in lines.

May keep production records. May be designated according to machinery operated, e.g.

Citrus Plant Operator  
Fruit Peeling Machine Operator  
Vegetable Peeler Operator

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: T1-4m E1y
HC: RCS	RQ: D2 V1 A1
<i>Materials</i>	
SM: T1	EQ: S1 M1
<i>Functions</i>	
MA: P2 D3 R4 L3	
PA: P2 U2 H2 W1 E3	SA: A2 S2 L1
<i>Context</i>	
EC: L1 C09.01.08	TC: A1 S2 I2 R2 T1
SS: 3	SC: 0 (na)
LMS: NA (0 %SE)	ASIC: 213

## 6542 BASIC FRUIT AND VEGETABLE PROCESSING OCCUPATIONS

This unit group covers occupations concerned with performing basic processing duties on fruit and vegetables.

**Entry Requirements** no formal requirements.

**Activities include** preparing, sorting and processing fruit and vegetables.

### 6542-A FRUIT AND VEGETABLE PROCESSER

Performs any combination of the following manual duties in processing fresh, dried or glace, fruit and vegetables.

Cuts and stones, cores, slices and peels fruit and vegetables by hand knife or using fixed blade. Places fruit or vegetable pieces on attachments of machines for further processing. Tends machines which slice or dice fruit and vegetables. Inspects, grades and trims fresh and dried fruit. Places fruit on trays for cooking, syruping and dehydrating in glace production. Grades and repacks glace fruit in bulk. Assists preparation mixers and plant operators with feeding and offbearing machines. Fills containers with produce by hand or machine. Assists with packaging or other duties as required.

May arrange retail packs of glazed and dried fruit.

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T2-4w
HC: R	RQ: D2 V2
<i>Materials</i>	
SM: T1	EQ: N1 W2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H1 S2 W2 E2	SA: S1 L2
<i>Context</i>	
EC: L1 C08.09	TC: A2 S1 R1 T2
SS: 3	SC: 0 (na)
LMS: NA (0 %SE)	ASIC: 213

### 6542-Z BASIC FRUIT AND VEGETABLE PROCESSING OCCUPATIONS nec

This residual group covers basic fruit and vegetable processing occupations not elsewhere classified in Unit Group 6542.

## **MAJOR GROUP 66**

### **TEXTILES PROCESSING OCCUPATIONS**

Textile Processing Occupations are classified in the following minor groups:

- 660 Yarn and Fabric Production Occupations
- 661 Textile Fabricating, Assembling and  
Repairing Occupations
- 662 Shoemaking and Repairing Occupations

**660 YARN AND FABRIC PRODUCTION OCCUPATIONS****6600 FOREMEN/WOMEN, YARN AND FABRIC PRODUCTION OCCUPATIONS**

- 6600-A Foreman/woman, Yarn Manufacturing Occupations
- 6600-B Foreman/woman, Warp Preparing Occupations
- 6600-C Foreman/woman, Weaving Occupations
- 6600-D Foreman/woman, Knitting Occupations
- 6600-E Foreman/woman, Tufting Occupations
- 6600-F Foreman/woman, Dyeing, Bleaching and Finishing Occupations
- 6600-Z Foremen/women, Yarn and Fabric Production Occupations nec

**6601 TEXTILE MECHANICS, YARN AND FABRIC**

- 6601-A Textile Mechanic, Spinning
- 6601-B Textile Mechanic, Weaving
- 6601-C Textile Mechanic, Knitting
- 6601-D Textile Mechanic, Tufting

**6602 TEXTILE MECHANICS, YARN AND FABRIC APPRENTICE OCCUPATIONS**

- 6602-A Apprentice Textile Mechanic, Spinning
- 6602-B Apprentice Textile Mechanic, Weaving
- 6602-C Apprentice Textile Mechanic, Knitting
- 6602-D Apprentice Textile Mechanic, Tufting

**6603 LEATHER, FUR AND FIBRE CLASSING AND GRADING OCCUPATIONS**

- 6603-A Wool Classer
- 6603-B Hide and Skin Classer
- 6603-C Leather Grader
- 6603-D Fur Grader
- 6603-Z Leather, Fur and Fibre Classing and Grading Occupations nec

**6604 LEATHER AND YARN MACHINE OPERATING OCCUPATIONS**

- 6604-A Tannery Operator
- 6604-B Wool Scouring Operator
- 6604-C Cotton Ginner
- 6604-D Carding Machine Operator
- 6604-E Spinning Machine Operator

**6605 FABRIC MACHINE OPERATING OCCUPATIONS**

- 6605-A Warp Sizer
- 6605-B Warper
- 6605-C Fabric Weaver
- 6605-D Carpet Weaver
- 6605-E Drawer-in
- 6605-F Tier-in
- 6605-G Knitting Machine Operator

**6606 YARN AND FABRIC MACHINE OPERATING OCCUPATIONS (OTHER)**

- 6606-A Dyeing, Bleaching, Finishing Machine Operator
- 6606-B Needle Loom Operator
- 6606-C Tufting Machine Operator
- 6606-D Bonding Machine Operator
- 6606-E Rope Making Machine Operator
- 6606-F Sprayer, Leather and Suede
- 6606-Z Yarn and Fabric Machine Operating Occupations (Other) nec

**6609 OTHER YARN AND FABRIC OCCUPATIONS**

- 6609-A Yarn and Fabric Examiner
- 6609-Z Yarn and Fabric Occupations nec

**661 TEXTILE FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS****6610 FOREMEN/WOMEN, TEXTILE FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS**

- 6610-A Supervisor, Inspecting, Grading and Sampling Occupations, Textile and Related Goods
- 6610-B Supervisor, Patternmaking, Marking and Cutting Occupations
- 6610-C Supervisor/Foreman/woman, Furriers
- 6610-D Supervisor, Sewing Machine Operators
- 6610-E Supervisor, Tailors and Dressmakers
- 6610-F Foreman/woman, Upholsterers
- 6610-G Foreman/woman, Leather and Canvas Workers

**6611 TAILORS**

- 6611-A Tailor, Made-to-Measure Garments
- 6611-B Tailor, Ready-to-Wear Garments

**6612 GARMENT MAKING OCCUPATIONS, EXCEPT TAILORS**

- 6612-A Dressmaker
- 6612-B Patternmaker/Grader (Textiles)
- 6612-C Wardrobe Assistant
- 6612-D Cutter, Tailors and Dressmakers
- 6612-E Quality Control Inspector, Apparel
- 6612-F Sample Hand, Apparel
- 6612-G Fitter (Garments)

**6613 FURRIERS**

- 6613-A Furrier, General
- 6613-B Fur Cutter
- 6613-C Cutter Hand, Furriers

**6614 UPHOLSTERERS, BEDDING AND MATTRESS MAKERS**

- 6614-A Upholsterer, General
- 6614-B Cutter, Upholstery
- 6614-C Bedding and Mattress Maker
- 6614-D Quality Controller, Furniture, Cushions and Covers

**6615 LEATHER AND CANVAS GOODS MAKERS**

- 6615-A Leather Worker
- 6615-B Canvas Worker
- 6615-C Sailmaker

**6616 TEXTILE FABRICATING, ASSEMBLING AND REPAIRING APPRENTICE OCCUPATIONS**

- 6616-A Apprentice Tailor
- 6616-B Apprentice Upholsterer
- 6616-C Apprentice Bedding and Mattress Maker

**6619 OTHER TEXTILE FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS**

- 6619-A Mender, Textile Products
- 6619-B Sewing Machine Operator (Textiles)
- 6619-C Milliner
- 6619-D Brushmaker
- 6619-Z Textile Fabricating, Assembling and Repairing Occupations nec

**662 SHOEMAKING AND REPAIRING OCCUPATIONS****6620 FOREMEN/WOMEN, SHOEMAKING AND REPAIRING OCCUPATIONS**

- 6620-A Foreman/woman, Shoemaking and Repairing Occupations

**6621 SHOEMAKING AND REPAIRING TRADE OCCUPATIONS**

- 6621-A Clicker
- 6621-B Machinist, Shoemaking
- 6621-C Laster
- 6621-D Shoemaker
- 6621-E Shoe Repairer

**6622 APPRENTICE SHOEMAKING OCCUPATIONS**

- 6622-A Apprentice Shoemaker

**6623 SHOEMAKING PRODUCTION PROCESS WORKERS**

- 6623-A Process Worker, Shoe Cutting
- 6623-B Process Worker, Shoe Machining
- 6623-C Process Worker, Shoemaking
- 6623-D Process Worker, Shoe Finishing
- 6623-Z Shoemaking Production Process Workers nec

**MINOR GROUP 660**  
**YARN AND FABRIC PRODUCTION OCCUPATIONS**

Yarn and Fabric Production Occupations are classified into the following unit groups.

- 6600 Foremen/women, Yarn and Fabric Production Occupations
- 6601 Textile Mechanics, Yarn and Fabric
- 6602 Textile Mechanics, Yarn and Fabric Apprentice Occupations
- 6603 Leather, Fur and Fibre Classing and Grading Occupations
- 6604 Leather and Yarn Machine Operating Occupations
- 6605 Fabric Machine Operating Occupations
- 6606 Yarn and Fabric Machine Operating Occupations (Other)
- 6609 Other Yarn and Fabric Occupations

*Related Occupations*

- Occupation 2004-D : Textiles Technical Officer
- Minor Group 672 : Printing Occupations (Other)

**6600 FOREMEN/WOMEN, YARN AND FABRIC PRODUCTION OCCUPATIONS**

This unit group covers occupations concerned with the processing of textiles.

**Entry Requirements** a basic vocational/trade qualification and/or 5-15 years of experience.

**Activities include** supervising and co-ordinating activities of workers engaged in processing textile fibres into yarn, weaving, knitting or processing yarn into fabric and other textile products, and dyeing, bleaching, finishing and examining textile products.

*Related Occupations*

- Occupation 2004-D : Technical Officer, Textiles

**6600-A FOREMAN/WOMAN, YARN MANUFACTURING OCCUPATIONS**

Supervises and co-ordinates activities of workers engaged in operating machines that open, clean and align natural or manmade fibres and comb, draw, spin, ply and wind yarns.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: T2m E5-10y
or FP: GE9-10y PSP1-6m(B)	IP: T2m E10-15y
HC: REC	RQ: P2 D2 V1
<i>Materials</i>	
SM: P2 T1	EQ: P2 S2 M1
<i>Functions</i>	
MA: A2 P1 D2 R2 M3 L2	
PA: P1 C2 S2 W2 E2	SA: L1 B1 R2-4

<i>Context</i>	
EC: L1 C02,09	TC: A1 I2 T2
SS: 6	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 23

**6600-B FOREMAN/WOMAN, WARP PREPARING OCCUPATIONS**

Supervises and co-ordinates activities of workers engaged in winding warp yarn onto packages and beams, sizing warp and arranging warp threads prior to dyeing, knitting and weaving.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: T2m E5-10y
or FP: GE9-10y PSP1-6m(B)	IP: T2m E10-15y
HC: REC	RQ: P2 D2 V1
<i>Materials</i>	
SM: P2 T1	EQ: P2 S2 M1

Functions

MA: A2 P1 D2 R2 M3 L2	
PA: P1 C1 S2 W2 E3	SA: L1 B1 R2-3
Context	
EC: L1 C02,09	TC: A1 I2 T2
SS: 6	SC: 6 (vy)
LMS: NA (0 %SE)	
ASIC: 23	

**6600-C FOREMAN/WOMAN, WEAVING OCCUPATIONS**

Supervises and co-ordinates activities of workers engaged in interlacing two sets of yarn to produce fabric.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

Job Content Factors

Workers	
FP: GE10y PSP4y(T)	IP: T2m E5-10y
or FP: GE9-10y PSP1-6m(B)	IP: T2m E10-15y
HC: REC	RQ: P2 D2 V1
Materials	
SM: P2 T1	EQ: P2 S2 M1
Functions	
MA: A2 P1 D2 R2 M3 L2	
PA: P1 C2 S2 W2 E2	SA: L1 B1 R2-3
Context	
EC: L1 C02,09	TC: A1 I2 T2
SS: 6	SC: 6 (vy)
LMS: NA (0 %SE)	
ASIC: 23	

**6600-D FOREMAN/WOMAN, KNITTING OCCUPATIONS**  
**Knitting Room Supervisor**

Supervises and co-ordinates activities of workers engaged in interlacing a yarn or number of yarns in a series of loops or other interlacing of yarns to make knitted fabric and other articles such as hose.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

Job Content Factors

Workers	
FP: GE10y PSP4y(T)	IP: T2m E5-10y
or FP: GE9-10y PSP1-6m(B)	IP: T2m E10-15y
HC: REC	RQ: P2 D2 V1
Materials	
SM: P2 T1	EQ: P2 S2 M1
Functions	
MA: A2 P1 D2 R2 M3 L2	
PA: P1 C2 S2 W2 E1	SA: L1 B1 R2-3
Context	
EC: L1 C02,09	TC: A1 I2 T2
SS: 6	SC: 6 (vy)
LMS: NA (0 %SE)	
ASIC: 23	

**6600-E FOREMAN/WOMAN, TUFTING OCCUPATIONS**

Supervises and co-ordinates activities of workers producing tufted carpets.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

Job Content Factors

Workers	
FP: GE10y PSP4y(T)	IP: T2m E5-10y
or FP: GE9-10y PSP1-6m(B)	IP: T2m E10-15y
HC: REC	RQ: P2 D2 V1
Materials	
SM: P2 T1	EQ: P2 S2 M1
Functions	
MA: A2 P1 D2 R2 M3 L2	
PA: P1 C2 S2 W2 E2	SA: L1 B1 R2-3
Context	
EC: L1 C02,09	TC: A1 I2 T2
SS: 6	SC: 6 (vy)
LMS: NA (0 %SE)	
ASIC: 23	

**6600-F FOREMAN/WOMAN, DYEING, BLEACHING AND FINISHING OCCUPATIONS**

Supervises and co-ordinates activities of workers engaged in dyeing, bleaching and finishing fabric or yarn, using chemical solutions, water, steam, heat, pressure or mechanical means.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

Job Content Factors

Workers	
FP: GE10y PSP4y(T)	IP: T2m E5-10y
or FP: GE9-10y PSP6m(B)	IP: T2m E10-15y
HC: REC	RQ: P2 D2 V1
Materials	
SM: D2 P2 T1	EQ: P1 S2 M1
Functions	
MA: I2 A1 P1 D2 R2 M3 L2	
PA: P1 C2 S2 W2 E2	SA: L1 B1 R2-4
Context	
EC: L1 C02,08,09	TC: A1 I2 T2
SS: 6	SC: 6 (vy)
LMS: NA (0 %SE)	
ASIC: 23	

**6600-Z FOREMEN/WOMEN, YARN AND FABRIC PRODUCTION OCCUPATIONS**  
**nec**

This residual group covers occupations concerned with co-ordinating textile processing not elsewhere classified in Unit Group 6600.

**6601 TEXTILE MECHANICS, YARN AND FABRIC**

This unit group covers occupations concerned with textile machine processing functions.

**Entry Requirements** a trade qualification in textile mechanics.

**Activities include** setting up, adjusting and maintaining yarn and fabric machines associated with spinning, weaving, knitting and tufting.

6601-A TEXTILE MECHANIC, SPINNING

Sets up, adjusts and maintains spinning machines that, in separate operations, comb, draw out and twist roving or sliver into yarn.

Installs and aligns gears and adjusts setscrews etc. to produce specified types and thicknesses of yarn. Starts machines for trial run to determine adjustments or repairs needed. Repairs or replaces defective parts.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: R	RQ: U2 D2 V1 A2
<i>Materials</i>	
SM: P2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: A2 D2 R3 M3 L2	
PA: P1 C1 W1 E3	SA: S1 L2 B2 R4
<i>Context</i>	
EC: L1 C02,09,06	TC: A1 I2 T1
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 23

6601-B TEXTILE MECHANIC, WEAVING  
Loom Tuner

Sets up, adjusts and maintains weaving looms to produce fabric or carpet of specified size, style and design.

Studies specifications to determine machine settings and arrangement of yarn. Sets up machine using hand tools and instruments. Starts loom for trial run and inspects woven material to determine adjustments or repairs needed. Repairs or replaces defective parts.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: R	RQ: U2 D2 V1 A2
<i>Materials</i>	
SM: P2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: A2 D2 R3 M3 L2	
PA: P1 C1 W1 E3	SA: S1 L2 B2 R4
<i>Context</i>	
EC: L1 C02,09,06	TC: A1 I2 T1
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 23

6601-C TEXTILE MECHANIC, KNITTING

Sets up, adjusts and maintains knitting machines to produce knitted fabric or products such as hose of specified size, style and design.

Prepares pattern mechanisms that control operation of automatic knitting machines and arranges them in machine to produce specified fabric. Installs spools on machine and draws ends of strands through knitting mechanisms using hook. Starts machine for trial run and observes fabric to determine adjustments or repairs needed. Repairs or replaces defective parts.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: R	RQ: U2 D2 V1 A2
<i>Materials</i>	
SM: P2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: A2 D2 R3 M3 L2	
PA: P1 C1 W1 E3	SA: S1 L2 B2 R4
<i>Context</i>	
EC: L1 C02,09,06	TC: A1 I2 T1
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 23

6601-D TEXTILE MECHANIC, TUFTING

Sets up, adjusts and maintains tufting machines that produce tufted carpet.

Studies specifications to determine machine settings and arrangement of yarn. Sets up machine using hand tools and instruments. Starts machine for trial run and inspects tufted material to determine adjustments or repairs needed. Repairs or replaces defective parts such as needles and pile cutting knives.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: R	RQ: U2 D2 V1 A2
<i>Materials</i>	
SM: P2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: A2 D2 R3 M3 L2	
PA: P1 C1 W1 E3	SA: S1 L2 B2 R4
<i>Context</i>	
EC: L1 C02,09,06	TC: A1 I2 T1
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 23

6602 TEXTILE MECHANICS, YARN AND FABRIC APPRENTICE OCCUPATIONS

This unit group covers occupations concerned with learning the duties of tradespersons in textile mechanics.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

**6602-A APPRENTICE TEXTILE MECHANIC,  
SPINNING**

Receives instruction and training in the trade of Textile Mechanic, Spinning.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP:
HC: R	RQ: U1 D2 V2 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S2 M1
<i>Functions</i>	
MA: A2 D3 R3 M3 L2	
PA: P1 U2 C1 W1 E3	SA: S1 L2
<i>Context</i>	
EC: L1 C02,09,06	TC: A1 I2 T2
SS: 2	SC: 5 (4 y)
LMS: NA (0 %SE)	ASIC: 23

**6602-B APPRENTICE TEXTILE MECHANIC,  
WEAVING**

Receives instruction and training in the trade of Textile Mechanic, Weaving.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP:
HC: R	RQ: U1 D2 V2 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S2 M1
<i>Functions</i>	
MA: A2 D3 R3 M3 L2	
PA: P1 U2 C1 W1 E3	SA: S1 L2
<i>Context</i>	
EC: L1 C02,09,06	TC: A1 I2 T2
SS: 2	SC: 5 (4 y)
LMS: NA (0 %SE)	ASIC: 23

**6602-C APPRENTICE TEXTILE MECHANIC,  
KNITTING**

Receives instruction and training in the trade of Textile Mechanic, Knitting.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP:
HC: R	RQ: U1 D2 V2 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: A2 D3 R3 M3 L2	
PA: P1 U2 C1 W1 E3	SA: S1 L2
<i>Context</i>	
EC: L1 C02,09,06	TC: A1 I2 T2
SS: 2	SC: 5 (4 y)
LMS: NA (0 %SE)	ASIC: 23

**6602-D APPRENTICE TEXTILE MECHANIC,  
TUFTING**

Receives instruction and training in the trade of Textile Mechanic, Tufting.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

**Job Content Factors**

<i>Workers</i>	
FP: GE10y	IP:
HC: R	RQ: U1 D2 V2 A2
<i>Materials</i>	
SM: D2 P2 T1	EQ: P1 S2 M1
<i>Functions</i>	
MA: A2 D3 R3 M3 L2	
PA: P1 U2 C1 W1 E3	SA: S1 L2
<i>Context</i>	
EC: L1 C02,09,06	TC: A1 I2 T2
SS: 2	SC: 5 (4 y)
LMS: NA (0 %SE)	ASIC: 23

**6603 LEATHER, FUR AND FIBRE CLASSING AND GRADING OCCUPATIONS**

This unit group covers occupations concerned with the classing and grading of leather, fur and fibres for particular uses or to accepted industry standards.

**Entry Requirements** Year 8-10 and/or basic vocational/para-professional professional qualifications with up to 2 years work experience.

**Activities include** laying out fleeces, skins, hides or pelts; inspecting for quality and size, cleanness, colour and density; removing defective parts; assigning gradings or classes to material worked on; recording information such as quantity and quality.

**6603-A WOOL CLASSER**

Is responsible for the preparation of the wool clip to accepted industry standards.

Classifies wool, and advises and reports on all matters pertaining to the clip and its preparation for sale. Instructs workers concerned with woolrolling, and supervises the

skirting and rolling of the fleece. Instructs and supervises workers concerned with piece-picking, picking up the fleeces and with other aspects of wool handling. Instructs woolpressers and exercises general supervision over the pressing, weighing and branding of the bales. Maintains, or supervises the recording in shed wool book. Records details of

station's clip. Makes summary of how clip was prepared for market. Is responsible for ordering of wool packs and woolpressers' requisites.

May be employed by wool selling or buying firms to class wool in a warehouse or as a technical supervisor. May also perform duties of 5010-B OVERSEER, SHEARING SHED and/or of 5019-D SHEARING SHED EXPERT.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP2y(PPC)	IP: E2y
HC: RIC	RQ: S1 V1
<i>Materials</i>	
SM: D2 P1 T1	EQ: S1
<i>Functions</i>	
MA: A1 P2 D2 R2 M3 L2	
PA: U1 W1 E2	SA: A2 S2 P2 B1 R3-4
<i>Context</i>	
EC: M2 L1	TC: A1 R2
SS: 5	SC: 5 (vy)
LMS: NA (50%SE)	ASIC: 0204

### 6603-B HIDE AND SKIN CLASSER

Inspects and assigns gradings to skins, hides or tanned leather.

Directs assistants in collection and laying-out of hides, skins or leather. Inspects and tests green skins or hides for wool quality and size, cleanness, colour, markings and quality and sort into lots for fellmongering, drying, salting or tanning. Inspects and sorts salted hides or dried or salted skins for baling or tanning. Inspects wet-blue leather hides or tanned skins for thickness, size and quality, and sorts into lots for further tanning or dispatch. Directs assistants in artificial drying, stacking, folding and baling. Consults with stock clerk to verify bale stencilling.

May be designated according to the type of classing being performed, e.g.

Export Hide Classer      Export Skin Classer  
Wet-Blue Leather Classer

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP6m(B)	IP: T1-2y E2y
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: P1 T1	EQ: S1 N1
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: U1 H2 W1 E3	SA: S1 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 R2
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: N

### 6603-C LEATHER GRADER

Examines and grades leather hide and various animal skins to make shoes.

Visually examines leather to detect defects, such as scars and holes, and feels leather to detect thin and thick areas. Grades and stacks leather according to thickness, colour and quality. Cuts out defective parts using knife. Records information such as quantity and quality.

May issue appropriate amount of leather to cutters for number of shoes they have to make.

#### Job Content Factors

<i>Workers</i>	
FP: GE8-9y	IP: T2-3y E1-2y
HC: R	RQ: V1
<i>Materials</i>	
SM: T1	EQ: S1
<i>Functions</i>	
MA: A2 D2 R3 M3 L3	
PA: U1 H1 W1 E3	SA: S1 L2
<i>Context</i>	
EC: L1	TC: A1
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 246

### 6603-D FUR GRADER Fur Matcher

Sorts skins into single garment bundles according to shade, size pattern and density of fur.

Makes visual comparison of pelts with sample pelt of each grade. Strokes fur to feel its density, to reveal its undercolour and to judge height of fur. Selects those pelts that match or blend and have the same density and length of fur, and places in separate bundles.

May estimate number of pelts required for particular garment to be manufactured. May store matched and dressed pelts in stockroom and keep inventory of pelts on hand. May sell pelts to customers.

#### Job Content Factors

<i>Workers</i>	
FP: GE9y	IP: T1-2y E2y
HC: RAC	RQ: V1
<i>Materials</i>	
SM: D2 T1	EQ:
<i>Functions</i>	
MA: A2 P2 D2 R4 M3 L3	
PA: U1 H1 S2 W2 E3	SA: S1 I2 B2 R4
<i>Context</i>	
EC: L1	TC: A1 I2
SS: 5	SC: 5 (vy)
LMS: NA (10%SE)	ASIC: 2456

### 6603-Z LEATHER, FUR AND FIBRE CLASSING AND GRADING OCCUPATIONS nec

This residual group covers leather, fur and fibre classing and grading occupations not elsewhere classified in Unit Group 6603.

## 6604 LEATHER AND YARN MACHINE OPERATING OCCUPATIONS

This unit group covers occupations concerned with operating machines or related activities associated with the preparation and processing of leather and yarns.

**Entry Requirements** Year 9 or 10 plus up to 3 years experience.

**Activities include** operating machines and performing related activities that convert animal skins into leather, and fibres into yarn, involving processes such as tanning, carding, spinning, winding and cotton ginning.

#### 6604-A TANNERY OPERATOR

Controls wet-area tanning, fellmongering or leather finishing machines.

Operates a fleshing machine. Loads drums or pits with hides or skins and the required chemicals. Controls tumbling or soaking time and unloads and spreads contents. Feeds wet-blue leather through sammer machine to produce dry sheets. Sets and adjusts blades and feeds leather through splitting and shaving machines and tests thickness of the side and split. Operates spray booth or dyeing drums to dye blue-leather sheets. Operates and feeds dyed leather through roller-drying machine to remove moisture and increase area of sheets. Operates and feeds leather to vacuum drying tables, radio frequency dryers, or pasteurizers and ovens. Operates staker machine to soften leather. Selects and installs pattern plates and operates leather press to imprint patterns as specified. Operates an area measuring machine and records area on sheet of finished leather. Cleans machines and work area.

May operate fellmongering equipment for paint spraying, deburring, wool pulling, woolscouring and drying. May operate machines to comb and dress wool and fur on tanned skins. May specialise in certain processes and be designated accordingly, e.g.

Leather Drying Operator	Leather Measuring Operator
Leather Printing Operator	Leather Splitting Operator
Sammer Operator	Woolpulling Machine Operator

Staker Operator  
Paint Table Operator, Fellmongery

##### Job Content Factors

Workers	
FP: GE10y	IP: T1-12m E3-6m
HC: RC	RQ: D1 V1
Materials	
SM: D2 T1	EQ: S2 M1 W1
Functions	
MA: D2 R3 M3 L3	
PA: P2 U1 C1 H1 W1 E4	SA: S2 L2
Context	
EC: L1 C08,09,01	TC: A1 I2 R1
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 345

#### 6604-B WOOL SCOURING OPERATOR

Operates plant and equipment which removes foreign material and oils from greasy wool.

Performs any combination of the following duties. Blends specified amounts of wool from different blades for feeding to scouring plant. Controls speed and treatment functions of scourer. Operates drying plant by controlling temperature and fans. Operates wool carbonising plant involving acid, other chemicals and washing treatments. Controls crushing and willowing plant to remove carbonised vegetable matter from wool. Operates presses and machines which bale scoured or carbonised wool pieces. Cleans equipment and work area.

May operate neutralizing or lanolin oil recovery plants involving regular sample testing and recording.

##### Job Content Factors

Workers	
FP: GE10y	IP: T2-4m E1-3y
HC: RCI	RQ: D1 V1 A2

##### Materials

SM: D2 T1	EQ: S1 M1
Functions	
MA: A2 D2 R3 M3 L2	
PA: P1 U2 W1 E3	SA: S1 L2
Context	
EC: L1 C01,08,09	TC: A1 I1
SS: 4	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 234

#### 6604-C COTTON GINNER Cotton Gin Operator; Ginner

Tends equipment or performs one or a number of associated functions in order to prepare cotton for further processing.

Records characteristics of cotton such as property and number of field where grown, variety of cotton, whether first or second pick and weight of load. Tends telescopic air suction tube to convey cotton to cotton gin and breaks up wads of cotton into puffs. Monitors control console in order to exercise continuous management to such operations as warm air drying to remove leaf and other trash, separation of lint from seed, final cleaning of cotton, combing of fibres and condensation of cotton into bales for storage and transportation. Weighs bales and takes sample for classing.

May be designated according to duties performed, e.g.

Assistant Ginner	Bagger
Bookman/woman	Pressman/woman

##### Job Content Factors

Workers	
FP: GE10y	IP: T2m E1-2y
HC: R1	RQ: D2 V2 A2
Materials	
SM: P2 T1	EQ: S1 M1
Functions	
MA: D2 R3 M3 L3	
PA: P2 U1 H2 W1 B2 E3	SA: L1 B2 R4
Context	
EC: L1 C02,06,09	TC: A2 S1 I2
SS: 2	SC: 4 (vy)
LMS: 400 (0 %SE)	ASIC: 234

#### 6604-D CARDING MACHINE OPERATOR

Operates carding machines that open, clean and align fibres and convert laps of fibres into slivers.

Mounts lap of fibre on bracket at feed end of machine and threads end of lap through feeder rollers or attaches end to lap in machine by pinching ends together with fingers. Patrols row of machines to detect exhausted laps or sliver breaks. Pieces up broken sliver by rolling and twisting ends with fingers. Removes full spools of fibres and places empty spool in winding position. Cuts sample from spool for quality control. Cleans machine, using airhose and brush, and oils moving parts.

May mix fibres into uniform blends.

##### Job Content Factors

Workers	
FP: GE9y	IP: T1-3m
HC: R	RQ: V2 A2
Materials	
SM: T1	EQ: S2 M1

Functions

MA: D3 R4 L3

PA: P1 U2 H2 W1 E3

SA: S2 L2

Context

EC: L1 C02,09

SS: 3

TC: A1 I1 R2

SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 23

### 6604-E SPINNING MACHINE OPERATOR

Operates machines which, in separate operation, comb, draw out and twist roving or sliver into yarn and wind yarn onto packages.

Positions or creels supply packages of sliver or roving at feed end of machine. Threads ends through drawing rollers and guides etc. or attaches ends to preceding material by overlapping and twisting, knotting or splicing. Patrols machines to observe flow of material and repairs breaks by overlapping and twisting, knotting or splicing. Removes lengths of yarn containing snarls and rejoins ends. Replenishes supply packages and doffs take-up packages and replaces them with empty spools. Uses brush or airhose to remove lint from machine.

May operate machines which twist or wind yarn together for strength, or machines which impart various textures to yarn and be designated accordingly, e.g.

Cap Spinner	Comber
Doubler	Drawing Machine Operator
Frame Spinner	Gill Box Operator
Mule Spinner	Ring Spinner
Speed Frame Operator	Twister
Yarn Winder	
Yarn Texture Machine Operator	

Job Content Factors

Workers

FP: GE9y

HC: R

IP: T1-3m

RQ: V2 A2

Materials

SM: T1

EQ: S2 M1

Functions

MA: D3 R4 L3

PA: P1 U2 H2 W1 E3

SA: S2 L2

Context

EC: L1 C02,09

SS: 3

TC: A1 I1 R2

SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 23

## 6605 FABRIC MACHINE OPERATING OCCUPATIONS

This unit group covers occupations concerned with operating machines or related activities associated with the processing of fabric.

### Entry Requirements Year 9.

**Activities include** operating machines and performing related activities that convert yarn to fabric, including warping, weaving, drawing-in, tying-in and knitting.

### 6605-A

#### WARP SIZER

Dresser (Textiles); Slasher (Textiles)

Operates machine that saturates warp yarn in sheet form with size and winds sized yarn on to loom beam.

Positions yarn packages in creel. Threads yarn through tension guides and rollers etc. or ties yarn ends to corresponding ends from previous run. Inserts rods between alternate strands of yarn to prevent yarn from sticking together. Operates controls to admit size to trough, to adjust roller pressure and to heat size and drying cylinders or chamber. Sets length meter, starts machine and regulates speed. Observes flow of warp through machine to detect breaks and tangles in yarn. Disentangles yarn and ties broken ends. Doffs full beam and replaces it with empty beam using hoist. Maintains production records.

May use hoist and/or helper to position section beams of yarn in creel.

Job Content Factors

Workers

FP: GE9y

HC: R

IP: T6-12m

RQ: V2 A2

Materials

SM: T1

EQ: S2 M1

Functions

MA: D3 R4 L3

PA: P1 U2 H2 W1 E4

SA: S1 L2

Context

EC: L1 C02,09

SS: 3

TC: A1 I1 R2

SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 23

### 6605-B

#### WARPER

Warp Beamer; Beamer

Operates machine that draws warp threads through reed and winds them on to beams preparatory to dyeing, weaving or knitting.

Positions yarn packages on creel. Lays individual yarn ends through guides, tensioners and reed etc. Tapes yarn ends to loom beam or ties groups of yarn ends into knots and inserts knots into slots of loom beam. Sets length meter. Starts machine and observes yarn to detect slubs, breaks and tangles. Removes slubs with scissors, straightens tangles and ties broken yarn ends. Doffs full beam and replaces it with empty beam using hoist. Maintains operating records such as style numbers, yarn breaks and length of yarn beamed. Cleans machine using brush or airhose.

May operate high speed automatic warpers. May use hoist and/or helper to position section beams of yarn in creel.

Job Content Factors

Workers

FP: GE9y

HC: RC

IP: T3-6m

RQ: V2 A2

Materials

SM: D2 T1

EQ: S2 M1

*Functions*

MA: D3 R4 M3 L3  
PA: P1 U2 H2 W1 E4

SA: S1 L2

*Context*

EC: L1 C02,09  
SS: 3

TC: A1 I1 R2  
SC: 3 (1 y)

LMS: NA (0 %SE)

ASIC: 23

**6605-C FABRIC WEAVER**

Operates one or more looms that weave yarn into fabric.

Checks position of warp yarn, beams packages or spools according to weaving requirements. Threads shuttles with weft yarn. Checks length meter. Starts looms and observes fabric being woven to detect weaving defects. Removes defects in cloth by cutting and removing weft threads. Repairs breaks in yarn by knotting ends together. Reports mechanical and weaving faults to weaving textile mechanic. Maintains production records.

*Job Content Factors**Workers*

FP: GE9y  
HC: R

IP: T6-12m  
RQ: V2 A2

*Materials*

SM: D2 T1

EQ: S2 M1

*Functions*

MA: D3 R4 M3 L3  
PA: P1 U2 H2 W1 E3

SA: S1 L2

*Context*

EC: L1 C02,09,04  
SS: 3

TC: A1 I1 R2  
SC: 3 (1 y)

LMS: NA (0 %SE)

ASIC: 23

**6605-D CARPET WEAVER**

Operates one or more looms fitted with pile forming mechanism or attachments to weave carpet or rugs.

Inserts specified number of pile wires through shed in sequence to produce pile. Checks position of pile and warp yarn beams, packages or spools according to weaving requirements. Threads shuttles with weft yarn. Checks length meter and starts loom. Checks for and repairs faults in pattern, pile, weave or width. Repairs breaks in yarn by knotting ends together. Reports mechanical and weaving faults to weaving textile mechanic. Maintains production records.

*Job Content Factors**Workers*

FP: GE9y  
HC: R

IP: T6-12m  
RQ: V1 A2

*Materials*

SM: D2 T1

EQ: S2 M1

*Functions*

MA: D3 R3 M3 L3  
PA: P1 U2 H2 W1 E3

SA: S1 L2

*Context*

EC: L1 C02,09,04  
SS: 3

TC: A1 I1 R2  
SC: 3 (1 y)

LMS: NA (0 %SE)

ASIC: 23

**6605-E DRAWER-IN**

Draws warp threads by hand or machine through harness assembly in preparation for weaving.

If drawing-in by hand, selects warp ends according to colour and sequence indicated on pattern chart. Pulls yarn through drop wires, heddle eyes and reed dents using hook. Repairs yarn breaks on loom by tying ends together. If drawing-in by machine, bolts set-up stand containing warp beam and harness assembly to frame of drawing-in machine. Attaches pattern strip to keys (slender wires) that are threaded through heddle eyes. Starts machine and observes operation of automatic threading service to ensure drawing-in according to pattern. Corrects misdraws using reed hook.

*Job Content Factors**Workers*

FP: GE9y  
HC: R

IP: T1-3m  
RQ: V1

*Materials*

SM: T1

EQ: N2 M2

*Functions*

MA: D3 R4 L3  
PA: P2 U2 H1 W1 E3

SA: S1 L2

*Context*

EC: L1 C02,09,04  
SS: 3

TC: A1 I1 R1  
SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 23

**6605-F TIER-IN  
Twister-in**

Joins new warp to old warp by hand twisting and/or mechanical knotting in order to resume weaving without repeating drawing-in process.

Checks positioning of new warp beam on loom. If tying-in by hand, inserts lease rods in old and new warps. Twists corresponding ends of old and new warps together using thumb and fingers. If twisting in by machine, positions machine behind loom. Clamps old and new warp ends in correct sequence. Starts machine and observes operation as it picks up corresponding strands, ties them together and cuts off excess yarn above knot. Hand ties ends not tied by machine.

*Job Content Factors**Workers*

FP: GE9y  
HC: R

IP: T1-3m  
RQ: V1

*Materials*

SM: T1

EQ: N2 M2

*Functions*

MA: D3 R4 L3  
PA: P2 U2 H1 W1 E3

SA: S1 L2

*Context*

EC: L1 C02,09,06  
SS: 3

TC: A1 I1 R1  
SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 23

**6605-G KNITTING MACHINE OPERATOR  
Knitter (Machine)**

Operates one or more machines that knit fabrics, garment parts or other articles from yarn, such as cotton, wool, nylon or rayon or blends thereof.

Installs spools on machine and ties end of yarn to strand in machine, or threads yarn through guides, tension springs, stop motion devices and carrier or needles, using hook. Starts machine and laps end of knitted goods around take-up roller. Observes knitting for defects, such as yarn breaks and exhausted packages. Notifies knitting textile mechanic of defects. Cuts knitted fabric with scissors, and (with help if necessary) doffs roll of cloth from machine. Maintains production records. Cleans machines.

*Job Content Factors**Workers*

FP: GE9y  
HC: R

IP: T6-12m  
RQ: V1 A2

*Materials*

SM: D2 T1

EQ: S2 M1

*Functions*

MA: D3 R4 M3 L3  
PA: P1 U2 H2 W1 E4

SA: S1 L2

*Context*

EC: L1 C02,09,04  
SS: 3

TC: A1 I1 R2  
SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 23

## 6606 YARN AND FABRIC MACHINE OPERATING OCCUPATIONS (OTHER)

This unit group covers occupations concerned with operating machines or related activities associated with the processing of yarn and fabric.

**Entry Requirements** Year 9.

**Activities include** operating machines and performing related activities in the production and finishing of yarn and fabric, including dyeing, bleaching, backing, tufting, bonding and examining.

### 6606-A DYEING, BLEACHING, FINISHING MACHINE OPERATOR Dyer; Dyer's Assistant; Dye Vat Attendant

Tends a specified machine to bleach, dye or impart a particular finish to yarn, textile fibres or piece goods using chemical solutions, water, steam, heat, pressure or mechanical means.

Loads or feeds material into machine by hand or using hoist. According to particular operation undertaken, may engage in one or more of the following duties. Measures and mixes ingredients for solutions according to formula. Turns valve to admit water, chemical solutions or steam. Regulates time, temperature or pressure using controls and observing gauges. Takes samples and matches colour. Some examples of the processes are calendering, beetling, mercerising, decatizing, shrinking, tentering, stretching, shaping, drying, ageing, napping, texturing, shearing, embossing and water proofing.

May maintain production records. May transport material to and from machine. May specialise in redyeing garments or other articles made from textile materials to customers' requirements, and be designated

Garment Dyer; Art Dyer

#### Job Content Factors

##### Workers

FP: GE9y IP: T1-3m  
HC: RC RQ: D2 V1

##### Materials

SM: D2 T1 EQ: M1

##### Functions

MA: I2 D3 R4 M3 L3  
PA: U1 H1 W1 E4 SA: S2 L2

##### Context

EC: L1 C08.02 TC: A1 I1 R2  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 23

### 6606-B NEEDLE LOOM OPERATOR Feltmaker

Operates one or more needle looms to produce needle (punched) felt or other non-woven fabric.

Selects and bolts specified needle boards to holder using wrenches. Turns rheostat to synchronise speed of feeder with action of needle board. Places roll of lap (cotton, wool or other fibre) into feed holder of loom. Aligns lap on conveyor, threads end of bat through needle bed of loom and attaches it to take-up spindle. If producing felt or other non-woven fabric with hessian or other backing material, loads backing material onto machine. Threads backing material round tensioning bars and between needle plates to take-up mechanism. Ensures that the lap is in alignment with backing material. Starts machine and observes operation to detect faults. Maintains production records.

#### Job Content Factors

##### Workers

FP: GE9y IP: T6-12m  
HC: R RQ: V2

##### Materials

SM: T1 EQ: N1 M1

##### Functions

MA: D3 R4 L3  
PA: U2 H2 W1 E3 SA: S1 L2

##### Context

EC: L1 C02.04.09 TC: A1 I1 R2  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 23

### 6606-C TUFTING MACHINE OPERATOR Tufter

Operates multi-needle machine which stitches pile yarn threads onto fabric backing to form tufted carpet (loop or cut pile).

Positions yarn packages in creel. Threads pile yarn ends through appropriate guide tubes, and feed mechanism to needles, or joins new ends to old ends in machine by knotting or splicing. Fixes roll of fabric backing on machine and passes end through guides, tensioners and rollers or secures end to the end of roll in machine, by hand stitching or with adhesive. Starts machine and watches operation to detect broken yarn ends. Smooths fabric and adjusts tensioners where necessary. Reports faults to tufting textile mechanic. Replaces empty yarn packages and replenishes supply of fabric backing as required. Stops machine when required length has been tufted. Cleans machine. Maintains production records.

#### Job Content Factors

##### Workers

FP: GE9y IP: T3-6m  
HC: R RQ: V1

##### Materials

SM: D2 T1 EQ: S2 M1

##### Functions

MA: D3 R4 M3 L3  
PA: P1 U2 H2 W1 E4 SA: S1 L2

##### Context

EC: L1 C02.04.09 TC: A1 I1 R2  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 23

### 6606-D BONDING MACHINE OPERATOR

Operates machine to bond fibres together with adhesive or by heat treatment to form non-woven carpet or fabric.

Adjusts machine controls to produce carpet or fabric of specified width. Positions take-up roller on machine. Ensures that supply of adhesive in bath or in feed container of spraying device is adequate. Heats rollers and/or drying equipment to prescribed temperature. Sets length counter and where appropriate automatic cutting device and starts machine. Regulates feed of fibrous web to rollers or along conveyor or secures end of web to leader cloth or to end in machine. Watches operation to ensure that bonding is proceeding correctly. Adjusts tensioners, temperature and speed of rollers, and traverse of spraying device as required. Regulates flow of adhesive from spray nozzles. Stops machine

when specified length has been produced and cuts off carpet or fabric. Removes or directs removal of lengths or rolls of carpet or fabric. Cleans machine and ancillary equipment. Maintains production records.

May mix fibres ready for bonding. May bond two layers of cloth together or bond layer of cloth onto foam rubber or other backing material.

#### Job Content Factors

<i>Workers</i>	
FP: GE9y	IP: T1-3m
HC: R	RQ: V2 A2
<i>Materials</i>	
SM: T1	EQ: S2 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P2 U2 H1 W1 E4	SA: S1 L2
<i>Context</i>	
EC: L1 C02,09,01	TC: A1 I1 R2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 23

### 6606-E ROPE MAKING MACHINE OPERATOR

Operates machines that make rope from fibre or synthetic strands or twine and wind rope onto reels, performing any combination of the following duties.

Installs specified size tubes that gather and compress yarn. Places specified number of full yarn bobbins on creel. Threads yarn through machine and ties end to reel that revolves to twist and yarn strand. Stops machine to repair yard breaks. Removes full reel using hoist. Selects and mounts reels of strands or twine on machine according to rope size specified. Threads strands or twine from reels through guides and splices strands or twine to lead rope attached to reel. Starts machine and watches operation to detect malfunction. Stops machine when counter indicates specified length is wound. Cuts rope with knife and binds coil with cord or tape to prevent unwinding. Removes coil of rope from reel, using hoist.

May be designated according to type of machine worked on, e.g.

Rope Coiler                      Rope Machine Operator  
Strand Forming Machine Operator

#### Job Content Factors

<i>Workers</i>	
FP: GE9y	IP: T1-6m
HC: R	RQ:
<i>Materials</i>	
SM: T1	EQ: S2 M1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: P1 U2 H2 W1 E3	SA: S2 L1
<i>Context</i>	
EC: L1 C09,02	TC: A1 I2 R1
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 233

### 6606-F SPRAYER, LEATHER AND SUEDE

Sprays dyes on leather and suede articles such as gloves, coats and jackets to dye, restore and enhance their original colour.

Selects and mixes solutions and dyes to match colour of garment. Fills spray gun container with mixture. Arranges articles on body form and covers parts of garment not to be sprayed. Places body forms in spray cabinet with fume hood to avoid combustion during spraying and to allow fumes to escape. Sprays solution evenly over surface. Presses articles using hot head press and hangs article in drying area. Places garments in plastic bags and attaches invoice.

#### Job Content Factors

<i>Workers</i>	
FP: GE9y	IP:
HC: RC	RQ: V1
<i>Materials</i>	
SM: D2 T1	EQ: S2 N2 M2
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C2 H2 W1 E3	SA: A1 S2
<i>Context</i>	
EC: L1 C02	TC: A1 R2
SS: 2	SC: 2 (vy)
LMS: 20 (0 %SE)	ASIC: 345

### 6606-Z YARN AND FABRIC MACHINE OPERATING OCCUPATIONS (OTHER) nec

This residual group covers occupations in yarn and fabric processing not elsewhere classified such as occupations concerned with making rope from hemp or synthetic fibre.

## 6609 OTHER YARN AND FABRIC OCCUPATIONS

This residual unit group covers textile processing occupations not elsewhere classified.

**Activities include** examining finished or unfinished fabrics, yarn or textile products to ensure conformity with specifications and to detect flaws.

### 6609-A YARN AND FABRIC EXAMINER Textile Examiner

Examines finished or unfinished fabrics, yarn or textile products to ensure conformity with specifications and to detect flaws.

Looks for defects such as grease spots, slubs, mispicks, uneven selvages, dropped stitches and irregularities in colour and dimension and flaws caused by faulty machine needles. Marks defects with thread, chalk or adhesive sticker etc. Keeps records of defects.

May use hand or power driven inspection board. May grade and/or sort fabrics according to defects found, style, colour, shade etc. May repair slubs broken yarns etc. in the finished woven product. May pair finished hosiery articles.

#### Job Content Factors

<i>Workers</i>	
FP: GE9y	IP: T3-6m
HC: RE	RQ: P2 V1
<i>Materials</i>	
SM: P2 T1	EQ: S2

<i>Functions</i>	
MA: D2 R3 M3 L3	
PA: P2 U1 H2 S2 W2 E3	SA: S2 L1
<i>Context</i>	
EC: L1 C02	TC: A1 I2 R2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 23

**6609-Z      YARN AND FABRIC OCCUPATIONS nec**

This residual group covers other textile processing occupations not elsewhere classified, in Unit Group 6609.

## MINOR GROUP 661 TEXTILE FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS

Textile Fabricating, Assembling and Repairing Occupations are classified in the following unit groups.

- 6610 Foremen/women, Textile Fabricating, Assembling and Repairing Occupations
- 6611 Tailors
- 6612 Garment Making Occupations, Except Tailors
- 6613 Furriers
- 6614 Upholsterers, Bedding and Mattress Makers
- 6615 Leather and Canvas Goods Makers
- 6616 Textile Fabricating, Assembling and Repairing Apprentice Occupations
- 6619 Other Textile Fabricating, Assembling and Repairing Occupations

### 6610 FOREMEN/WOMEN, TEXTILE FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS

This unit group covers occupations concerned with supervising and co-ordinating workers engaged in the fabrication, assembly and repair of textile, fur and leather products.

**Entry Requirements** a basic vocational/para-professional/trade qualification and/or up to 15 years' experience and the creative ability appropriate for garment production.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### 6610-A SUPERVISOR, INSPECTING, GRADING AND SAMPLING OCCUPATIONS, TEXTILE AND RELATED GOODS

Supervises and co-ordinates activities of workers engaged in inspecting, grading, sampling and other quality control work in the fabrication, assembly and repair of textile, fur or leather products.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

##### *Job Content Factors*

##### *Workers*

FP: GE10y PSP4y(T)	IP: T2m E5-10y
or FP: GE9-10y PSP1-2y(PPC) / (B)	IP: T6m E10-15y
HC: REI	RQ: Q2 V1

##### *Materials*

SM: D2 P2 T1	EQ: P2 S2 M2
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##### *Functions*

MA: A1 P1 D2 R2 M2 L2	
PA: P2 U2 H2 S2 W2 E2	SA: S1 L2 B1 R3-4

##### *Context*

EC: L1	TC: A1 I2 T2
SS: 5	SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 23

#### 6610-B SUPERVISOR, PATTERNMAKING, MARKING AND CUTTING OCCUPATIONS

Supervises and co-ordinates activities of workers engaged in making patterns, laying out, marking, cutting or punching textile, fur and leather to make or prepare pieces or parts for products, such as garments, footwear, sails and upholstery.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in the production of miniatures (patterns reduced in size) and procedures for optimising cloth usage. May supervise sample cutters. May supervise workers engaged in a particular activity and be designated accordingly, e.g.

Supervisor/Foreman/woman, Cutting Department  
Supervisor/Foreman/woman, Lay-out, Marking and Cutting-out

Job Content Factors

<b>Workers</b>	
FP: GE9-10y PSP1-2y(PPC) / (B) or FP: GE10y PSP4y(T) HC: REA	IP: T6m E10-15y IP: T2-3m E5-10y RQ: Q2 U2 V1
<b>Materials</b>	
SM: D2 I2 P2 T1	EQ: P1 S2 M1 K2
<b>Functions</b>	
MA: I2 A1 P1 D2 R2 M2 L2 PA: P2 U2 S2 W2 E2	SA: S1 L2 I2 B1 R3-4
<b>Context</b>	
EC: L1 SS: 5	TC: A1 I2 T2 SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 23

6610-C SUPERVISOR/FOREMAN/WOMAN, FURRIERS

Supervises and co-ordinates activities of workers engaged in designing, making, altering, re-styling and repairing natural fur garments and accessories.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Verifies that pelts conform with dressing and dyeing specifications. Sorts, matches and cuts pelts to fill special orders.

May confer with buyers concerning such matters as price, styles and rush orders. May supervise workers engaged in a particular activity and be designated accordingly, e.g.  
Supervisor/Foreman/woman, Finishing (Fur)  
Supervisor/Foreman/woman, Production (Fur)

Job Content Factors

<b>Workers</b>	
FP: GE9-10y HC: REA	IP: T6m E10-15y RQ: Q2 U2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S2 M2
<b>Functions</b>	
MA: A2 P1 D2 R2 M3 L2 PA: P2 U2 S2 W2 E2	SA: S2 L2 I2 B1 R3-4
<b>Context</b>	
EC: L1 C09 SS: 5	TC: A1 I2 T2 SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 23

6610-D SUPERVISOR, SEWING MACHINE OPERATORS  
Sewing Machine Supervisor

Supervises and co-ordinates activities of workers engaged in machine sewing of textiles and similar materials to produce or repair articles, such as garments, draperies, bedding, carpets, tents and felt goods.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Examines garment parts or finished articles for defects, such as double or irregular stitches, misaligned parts, variances in colours, untrimmed edges or loose thread ends, and verifies that ornaments and buttons or fasteners are attached to article. Notifies sewing machine repairman/woman of required repairs and adjustments to machines.

May supervise workers engaged in a particular sewing activity or in manufacturing a particular product, and be designated accordingly, e.g.  
Supervisor, Glove Making  
Supervisor, Jackets  
Supervisor, Shirts  
Supervisor, Stitching Department  
Supervisor, Finishing Department

Job Content Factors

<b>Workers</b>	
FP: GE9y or FP: GE10y PSP4y(T) HC: REI	IP: T2-3m E5-12y IP: T2m E5-10y RQ: V1

<b>Materials</b>	
SM: P2 T1	EQ: P2 S2 M2
<b>Functions</b>	
MA: A2 P1 D2 R3 M3 L2 PA: P2 U2 C2 S2 W2 E2	SA: S2 L1 B1 R2-4
<b>Context</b>	
EC: L1 C09 SS: 5	TC: A1 I2 T2 SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 23

6610-E SUPERVISOR, TAILORS AND DRESSMAKERS

Supervises and co-ordinates activities of workers engaged in making, altering and repairing made-to-measure or ready-to-wear garments, and in performing the more difficult tasks in manufacturing ready-to-wear clothing.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers concerned with a particular tailoring activity and be designated accordingly, e.g.  
Supervisor, Alterations  
Supervisor, Custom Tailoring Shop  
Supervisor, Garment Repair

Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE9y PSP6-12m(B) HC: RAE	IP: T1m E5-10y IP: T2-3m E10-15y RQ: Q2 U2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S2 M2
<b>Functions</b>	
MA: A2 P1 D2 R2 M2 L2 PA: P2 U2 C2 S2 W2 E2	SA: S2 L2 I1 B1 R3-4
<b>Context</b>	
EC: L1 C09 SS: 5	TC: A1 I2 T2 SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 23

6610-F FOREMAN/WOMAN, UPHOLSTERERS

Supervises and co-ordinates activities of workers engaged in upholstering, rebuilding and repairing upholstered products such as chairs, couches and cushions.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE9y PSP6-12m(B) HC: REA	IP: T2m E5-10y IP: T2-3m E10-15y RQ: U2 V1
<b>Materials</b>	
SM: D2 I2 T1	EQ: P2 S2 M2
<b>Functions</b>	
MA: A2 P1 D2 R2 M2 L2 PA: P2 U2 C2 S2 W2 E2	SA: S2 L2 I2 B1 R3-4
<b>Context</b>	
EC: L1 C09 SS: 6	TC: A1 I2 T2 SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 254

6610-G FOREMAN/WOMAN, LEATHER AND CANVAS WORKERS

Supervises and co-ordinates activities of workers engaged in making and repairing leather and canvas goods, including sailmaking.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.  
Supervisor/Foreman/woman, Canvas Repairer  
Supervisor/Foreman/woman, Case Maker

Supervisor/Foreman/woman, Harness Maker	
Supervisor/Foreman/woman, Saddle Maker	
Supervisor/Foreman/woman, Tarpaulin Maker	
Supervisor/Foreman/woman, Wallet Maker	
<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9-10y PSP1-4y(T) / (B)	IP: T2m E5-10y
or FP: GE9y	IP: T6m E10-15y
HC: REA	RQ: Q2 U2 V1

<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S2 M2
<i>Functions</i>	
MA: A2 P1 D2 R2 M2 L2	
PA: P2 U2 C2 S2 W2 E2	SA: S2 L2 I2 B1 R3-4
<i>Context</i>	
EC: L1 C09	TC: A1 I1 T2
SS: 6	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 235,345

6611 TAILORS

This unit group covers occupations concerned with the fabrication of made-to-measure and ready-to wear garments.

**Entry Requirements** a trade qualification in an appropriate area or Year 9-10 and 2 years experience.

**Activities include** the cutting out, sewing and completion of garments to customers' requirements or pattern specifications.

6611-A TAILOR, MADE-TO-MEASURE GARMENTS  
Master Tailor

Makes garments such as suits, topcoats, overcoats and other dress clothing, applying knowledge of garment design, construction and styling.

Confers with customer to determine type of material to be used, style and design of garment desired. Measures customer for size, using measuring tape, and records measurements for use in preparing patterns. Draws original pattern for garment, or alters existing pattern to fit customer measurements. Applies pattern to fabric with pins, and cuts fabric along outlines of pattern, using shears. Assembles garment, sewing padding to coat fronts, lapels, and collars to give them shape, and bastes garment parts, using needle and thread or sewing machine. Fits basted garment on customer and marks areas requiring alterations, using chalk. Alters garment and joins parts, using needle and thread and sewing machine. Sewes buttons and buttonholes to finish garment. Directs activities of other workers in tailoring shop.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: ARE	RQ: Q2 U1 V1
<i>Materials</i>	
SM: I2 P2 T1	EQ: S1 M1
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: P1 U2 C1 S2 W2 E2	SA: S1 I1 P2 B2 R4
<i>Context</i>	
EC: L1 C09	TC: A1 I2 T2
SS: 6	SC: 6 (vy)
LMS: 500-600 (50%SE)	ASIC: 23

6611-B TAILOR, READY-TO-WEAR GARMENTS

Performs specialised hand and machine sewing operations in manufacture of made-to-measure and ready-to-wear clothing, applying knowledge of garment construction and fabrics.

Trims and shapes edges of garment parts according to pattern prior to sewing, and cuts excess material from seam edges, using shears. Fits collar facing to underfacing with pins, trims edge of undercollar with shears, and sews undercollar to collar using sewing machine. Bastes collar and sleeves to coat body, using needle and thread, prior to sewing collar and sleeves with permanent stitches, using sewing machine. Stitches shoulder padding, coat facing and lining together at armhole. Bastes and sews canvas material in various coat parts, such as undercollar, shoulder and front edge to give garment shape and body. Joins shoulder padding to coat with basting stitches. Sewes on buttons, makes button holes and presses seams, using steam iron to finish garment.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
or FP: GE9-10y	IP: T2-4y E2y
HC: RA	RQ: U1 V1
<i>Materials</i>	
SM: D2 T1	EQ: P2 S2 M1
<i>Functions</i>	
MA: P2 D3 R3 M3 L2	
PA: P1 C1 S1 E2	SA: S2 L1 I2 B2 R4
<i>Context</i>	
EC: L1 C09	TC: A1 I2 T2
SS: 6	SC: 6 (vy)
LMS: 500-600 (50%SE)	ASIC: 23,48

6612 GARMENT MAKING OCCUPATIONS, EXCEPT TAILORS

This unit group covers occupations concerned with the fabrication of made-to-measure and ready-to-wear garments.

**Entry Requirements** Year 9-12 and in some cases a para- professional certificate or trade qualification in a related area and up to 3 years' experience.

**Activities include** the cutting out, sewing, fitting and completion of garments to customers' requirements or pattern specifications; advising customers on fit and style; and inspection of finished garments.

6612-A DRESSMAKER

Makes women's garments such as dresses, coats, suits and other dress clothing, applying knowledge of women's garment design, construction and styling.

Confers with customer to determine type of material, pattern or style to be used in making garment. Takes customer's measurements, using tape measure to determine modifications from pattern. Draws original pattern or drafts standard pattern according to measurements of customer and modifies pattern to obtain specified style. Positions and pins pattern sections and cuts fabric with scissors following pattern edge. Pins, or bastes fabric parts together in preparation for final sewing. Sews fabric parts together, using single-needle sewing machine to form garment. Sews felling stitch in hem of garment to conceal thread. Presses seams as each section is sewn on, using hand iron to smooth seams and remove wrinkles. Makes garments according to pictures furnished by customers.

May be designated  
Seamstress

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE10-11y PSP1-2y(PPC) / (B) or FP: GE9-10y	IP: E3m IP: T4-5y
HC: RAE	RQ: Q2 U2 V1
<i>Materials</i>	
SM: P2 T1	EQ: P2 S2 M1
<i>Functions</i>	
MA: I2 P2 D2 R3 M3 L2 PA: P1 U2 C1 S2 W2 E2	SA: S1 L2 I1 P2 B2 R4
<i>Context</i>	
EC: L1 C09 SS: 5	TC: A1 I1 T2 SC: 5 (vy)
LMS: 1000-1200(70%SE)	ASIC: 23,48

6612-B PATTERNMAKER/GRADER (TEXTILES)

Draws sets of master patterns following sketches, sample articles and design specifications and cuts out patterns for specified ranges of garment sizes increasing or decreasing the grade (dimensions) of master patterns.

Examines sketches or sample articles and design specifications to ascertain data such as number, shape, and size of pattern parts and quantity of cloth required to make finished article, using knowledge of manufacturing processes and characteristics of fabrics. Draws outlines of parts on paper, using drafting instruments. Draws details such as position of pleats, pockets, buttonholes and buttons, on outlined parts. Marks outlined garment with lines and notches that serve as guides in joining parts. Cuts out master patterns, using

scissors and knife, or perforates cutting lines to form stencil, using perforating machine. Marks size, identification and style information on patterns.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9-11y PSP1-2y(PPC) / (B) or FP: GE9y	IP: T1y IP: T3-4y
HC: RA	RQ: Q2 U2 V1
<i>Materials</i>	
SM: D2 T1	EQ: P1 S2 M2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2 PA: P1 U2 S1 E1	SA: S1
<i>Context</i>	
EC: L1 C09 SS: 5	TC: A1 I2 SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 23

6612-C WARDROBE ASSISTANT

Makes costumes for television, theatre and film casts and performs minor cutting duties and fits costumes.

Makes alterations to costumes and effects minor repairs. Acts as dresser on location or at studio sets and is responsible for care and custody of costumes in use. Assists in acquisition of costumes for productions.

May co-ordinate wardrobe requirements for television, theatre and film casts and interpret costume sketches and be designated,  
Wardrobe Co-ordinator

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9y	IP: T1y
HC: RA	RQ: Q2 U2 V1
<i>Materials</i>	
SM: D2 T1	EQ: P1 S2 M2
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2 PA: P1 U2 S1 E1	SA: S1
<i>Context</i>	
EC: L1 C09 SS: 3	TC: A1 I2 SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 23

6612-D CUTTER, TAILORS AND DRESSMAKERS  
Cloth-Cutting Machine Operator

Cuts lay of fabric following pattern outline to form parts for articles such as awnings, cloth slippers, cushions, fitted sheets, garments, seat covers and sleeping bags, using portable

electric cutter.

Inserts base of portable electric cutter under layers of fabric. Starts and guides cutter around edges of pattern or along markings on top layer of fabric to cut out parts.

May spread fabric on table preparatory to cutting. May arrange patterns on top ply of fabric and mark outline of pattern on fabric, using chalk or crayon. May drill holes through layers of fabric parts or cut notches in edges of parts according to pattern on top ply to mark parts for assembly, using electric hand drill, electric cutter or computer controlled equipment. May separate cutting waste according to composition of material.

#### Job Content Factors

##### Workers

FP: GE10y PSP3-4y(T)  
or FP: GE9-10y  
HC: R  
IP: T6-9m  
RQ: V1

##### Materials

SM: T1  
EQ: P1 S2 M1 W2

##### Functions

MA: D3 R4 L3  
PA: P1 U2 C2 H2 S2 W1 E3  
SA: S1 B2 R4

##### Context

EC: L1 C09  
SS: 4  
TC: A1 I2 R2 T2  
SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 23

#### 6612-E QUALITY CONTROL INSPECTOR, APPAREL Examiner, Apparel (Textiles)

Inspects garments for quality and conformity to standards, performing any combination of the following duties.

Spreads garments on table or draws them over inspection forms. Visually examines garments for defects in assembly and finish, such as puckers, bulges and splits in seams, lining and collar settings, misplacement of pockets, loops, snaps, buttons or button holes, faulty pressing, runs and variations in colour. Marks defective garments, using chalk, thread, tags or pins, for reworking or removal from stock. Measures garment at designated places, using tape measure or ruler, or following markings on table, to determine conformity with standard size. Trims excess material or thread ends from garment using scissors. Removes lint, threads, spots and stains from garments using brush or lint remover and cleaning fluid. Attaches identification tags, price tickets or labels to garments and compares with hanger ticket to ensure correct marking of style, size and material content. Smooths folds and stacks garments on table or hangs them on rack to avoid wrinkling. Records number of garments accepted or rejected.

May hand sew buttons to complete garment when buttons cannot be machine-fastened. May be designated according to phase at which inspection takes place, or according to type and part of garment inspected, e.g.

Final Inspector, Garments

Quality Control Inspector, Foundation Garments

Quality Control Inspector, Jackets

Quality Control Inspector, Shirts

#### Job Content Factors

##### Workers

FP: GE9y  
HC: R1  
IP: T6-9m  
RQ: V1

##### Materials

SM: T1  
EQ: S1

#### Functions

MA: A2 D2 R3 M3 L3  
PA: U1 H1 S2 W2 E2  
SA: S1 B2 R3-4

#### Context

EC: L1  
SS: 4  
TC: A1 I2 R2  
SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 23

#### 6612-F SAMPLE HAND, APPAREL

Sews sample garments for new designs, according to pattern specifications and designer's directions.

Selects garment parts and threads, according to design specifications. Positions, aligns and sews parts of garment together, using needle and thread or sewing machine, following markings on parts, sketches and patterns. Positions garment on model form, to examine fit and drape. Indicates position of fasteners and trimmings such as sashes, belts, buttons and emblems on garments, using chalk.

May mark and cut materials to obtain garment parts, following patterns or designer's sketches. May press garments by hand or machine.

#### Job Content Factors

##### Workers

FP: GE9y PSP  
or FP: GE10-12y PSP2m(B)  
HC: RAE  
IP: T3-6m E3y  
IP: T1m E1-3y  
RQ: Q2 U2 V1

##### Materials

SM: D2 P2 T1  
EQ: S2 M1

##### Functions

MA: A2 D2 R3 M3 L3  
PA: P1 U2 C1 S1 E1  
SA: S1

##### Context

EC: L1 C09  
SS: 3  
TC: A1 I2 T1  
SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 23

#### 6612-G FITTER (GARMENTS) Fitter, Clothing

Fits ready-to-wear garments on customer, according to customer's requirements.

Studies fit of garment on customer to determine alterations required, and discusses customer style preferences to assure satisfactory fitting. Pins altering folds and seams, or darts, to arrive at desired fit. Measures parts of garment such as sleeves and pants, using measuring tape, and marks garment, using chalk and pins to indicate alterations required. Calls out or writes alteration instructions on alteration tag. Suggests other garments or different styles when it becomes difficult to fit customer.

#### Job Content Factors

##### Workers

FP: GE9y  
HC: REC  
IP: T1-6m  
RQ: Q2

##### Materials

SM: D2 P2 T1  
EQ: S1

##### Functions

MA: D3 R3 M3 L3  
PA: P2 W1 E1  
SA: S2 L2 I1

##### Context

EC: L1  
SS: 3  
TC: A1  
SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 23,48

### 6613 FURRIERS

This unit group covers occupations concerned with the sorting and cutting of skins for the fabrication and repair of fur garments.

**Entry Requirements** Year 9 and in some cases, up to 3 years' experience.

**Activities include** the selection, grading, matching and cutting out of pelts and sewing to customer requirements or pattern specifications.

#### 6613-A FURRIER, GENERAL Fur Tailor

Makes, alters, restyles and repairs fur garments.

Estimates cost of new garments, alterations, renovations and repairs. Selects and modifies patterns for fur garments to suit customer's size and style preferences. Grades, sorts and matches furs to be used. Cuts furs according to pattern using fur-cutting knife. Joins furs together using sewing machine. Lays out, stretches and trims sewn parts to conform to patterns. Assembles and sews fur parts and lining together to produce finished article. Repairs garments by cutting out worn or damaged skins, cutting matching replacement furs to size and sewing in place. Adds or removes skins from garments to change style.

May glaze fur articles using steam-ironing machine to restore glossy appearance. May supervise activities of workers engaged in one or more of the described operations.

##### Job Content Factors

###### Workers

FP: GE9y	IP: T5y E2-3y
HC: RAE	RQ: Q2 U2 V1

###### Materials

SM: D2 P2 T1	EQ: S1 M1
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###### Functions

MA: P2 D2 R3 M3 L2	
PA: P1 U2 C1 S2 W2 E2	SA: S2 L2 I1 B2 R4

###### Context

EC: L1 C09	TC: A1 I2
SS: 4	SC: 4 (vy)

LMS: NA (10%SE)

ASIC: 2456

#### 6613-B FUR CUTTER

Selects and lays out pelts; nails them to pattern and cuts pelts required to make, alter or repair garment or other fur articles.

Selects required number of fur pelts and matches them for size, colour, texture and quality. Arranges pelts on pattern according to design, colour and quality to achieve best appearance and symmetry. Numbers pelts to indicate their location on pattern. Cuts off unusable parts such as heads, necks, sides, rumps and tails. Slits skin of fur into diagonal strips, leaving uncut margin at edge, to obtain specified length and shape of pelt, using furrier's knife. Cuts and trims pelts to shape them, according to garment patterns.

May direct the sewing of fur pelts or fur strips into garments. May trim blocked furs prior to sewing, by removing excess fur around chalk-marked patterns, using hand knife or scissors, and be designated, e.g.

Fur Trimmer

##### Job Content Factors

###### Workers

FP: GE9y	IP: T2-3y
HC: RA	RQ: Q2 V1

###### Materials

SM: T1	EQ: S1 M1
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###### Functions

MA: D2 R3 M3 L2	
PA: P1 U2 C1 S2 W2 E2	SA: S1 L2

###### Context

EC: L1 C09	TC: A1 I2
SS: 3	SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 2456

#### 6613-C CUTTER HAND, FURRIERS

Cuts single or several layers of fur, following pattern outline, to make parts of garments.

Holds fur material securely with hand. Cuts around edges of pattern along markings on single or top layer of material to make parts according to specifications, using shears, handknife or electric scissors. Marks or notches edges of parts, according to pattern, to indicate assembly points, using marking pencil and shears, handknife or electric scissors.

May cut damaged part out of article, place part on replacement material as pattern, and cut around pattern to make replacement part, using shears, handknife or electric scissors.

##### Job Content Factors

###### Workers

FP: GE9y	IP: T3-6m
HC: R	RQ: V1

###### Materials

SM: T1	EQ: S1 M1
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###### Functions

MA: D3 R4 L3	
PA: P1 U2 S2 W2 E2	SA: S1 L2

###### Context

EC: L1 C09	TC: A1 I2 R2
SS: 4	SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 2456

## 6614 UPHOLSTERERS, BEDDING AND MATTRESS MAKERS

This unit group covers occupations concerned with the fabrication and repair of upholstery in furniture, cushion and bedding manufacture.

**Entry Requirements** a trade qualification or, in some cases, Year 9-10 and up to 1 year's experience.

**Activities include** the cutting out, assembling, sewing and finishing of upholstered products including mattresses, to customer requirements or pattern specifications; inspecting finished covers.

### 6614-A UPHOLSTERER, GENERAL

Repairs and rebuilds upholstered furniture, using hand tools and knowledge of fabrics and upholstery methods.

Discusses such matters as fabric, colour, style and cost with customer. Removes covering, webbing and padding from seat, arms, back and sides of workpiece, using staple gun, tack-puller, chisel and mallet. Removes defective springs by cutting cords or wires that hold them in place, using scissors or wire cutters. Replaces webbing and springs or reties spring using tack hammer, hand shears, needle and twine and clinching tool. Measures and cuts new covering material with measuring tape and scissors. Installs material on inside of arms, back and seat and over outside back and arms of wooden frame. Tacks, glues or sews ornamental trim such as decorative nails, braid and buttons to cover or frame. Operates sewing machine to seam cushions and join various sections of covering material or sews by hand.

May remove stains from furniture fabrics using cleaning agents, brush and cloth. May estimate yardage required to re-upholster furniture to determine fabric costs. May repair wooden frame of workpiece using cabinet maker's hand tools. May refinish wooden surfaces on furniture.

#### Job Content Factors

##### Workers

FP: GE10y PSP4y(T) IP:  
HC: RA RQ: U2 V1

##### Materials

SM: D2 I2 T1 EQ: P2 S1 M1

##### Functions

MA: A2 P2 D2 R3 M3 L3  
PA: P1 U2 C1 H2 S2 W1 E3 SA: S2 L2 I2 B2 R4

##### Context

EC: L1 C09 TC: A1 I2  
SS: 4 SC: 4 (vy)

LMS: NA (50%SE)

ASIC: 254

### 6614-B CUTTER, UPHOLSTERY

Marks and cuts cloth, leather or synthetic fabric into upholstery parts such as arm rest, back and cushion cover.

Spreads material in single or multiple layers on cutting table. Positions pattern or stencils pattern outline on layer or sheet of material following finish, grain or shape of fabric so that parts match when assembled. Cuts fabric around pattern to make parts according to specifications using shears, electric scissors or portable electric cutter.

May sew upholstery parts together to form completed covers by hand or using sewing machine.

#### Job Content Factors

##### Workers

FP: GE10y PSP4y(T) IP:  
or FP: GE9y IP: T4-6y  
HC: R RQ: V1

##### Materials

SM: D2 T1 EQ: P2 S1 M1

#### Functions

MA: A2 D2 R3 L3  
PA: P1 U2 C1 H2 S2 W1 E3 SA: S1 L2 B2 R4

#### Context

EC: L1 C09 TC: A1 I2 R2  
SS: 4 SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 254

### 6614-C BEDDING AND MATTRESS MAKER

Pads and covers spring unit to upholster mattresses performing any combination of the following duties.

Inserts wire in coiling machine and puts machine into operation. Sample-runs machine and makes necessary adjustments to specifications. Threads up coilers and does sample run to check pitch of helical. Takes springs to assembly machine and inserts springs into jaws of machine. Puts machine into operation to join springs. Takes specified wire and feeds into machine to form frame edge-wire around outside edges and uses fastening gun to attach frame to springs. Staples unit to box spring frame. Positions selected paddings over unit. Takes selected covering material and encases unit, using staple gun or closing machine. Puts protective covering over unit and seals it with tape.

May tack dust cloth to bottom of frame.

#### Job Content Factors

##### Workers

FP: GE10y PSP4y(T) IP:  
or FP: GE9-10y IP: T4-6y  
HC: RA RQ: U2 V1

##### Materials

SM: T1 EQ: S1 M1

##### Functions

MA: A2 D2 R3 M3 L3  
PA: P2 U2 C2 W1 E3 SA: S2 L2 B2 R4

##### Context

EC: L1 C09.04 TC: A1  
SS: 4 SC: 4 (vy)

LMS: NA (10%SE)

ASIC: 254

### 6614-D QUALITY CONTROLLER, FURNITURE, CUSHIONS AND COVERS

Inspects finished upholstered cushions and furniture covers for defects and conformity with specifications.

Marks defects using chalk, tack or adhesive colour coded tape. Rips out faulty seams and returns rejected items for reworking. Measures valances with yardstick to verify conformity with specifications. Records number of defects.

May repair minor defects using needle and thread. May correct irregularity of shape or surface using pick. May be designated according to product inspected, e.g.

Cover Inspector

Cushion Inspector

**Job Content Factors**

<b>Workers</b>	
FP: GE9-10y	IP: T3-6m E1y
HC: R	RQ: P2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1

**Functions**

MA: A2 D2 R3 M3 L3	SA: S1 B2 R3-4
PA: U1 H1 S2 W2 E3	
<b>Context</b>	
EC: L1	TC: A1 I2 R2
SS: 3	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 254

**6615 LEATHER AND CANVAS GOODS MAKERS**

This unit group covers occupations concerned with the fabrication and repair of leather, canvas and sail cloth products.

**Entry Requirements** Year 9-10 and usually a basic vocational certificate or trade qualifications.

**Activities include** the cutting out, assembling, sewing and finishing of products to customer requirements or pattern specification.

**6615-A LEATHER WORKER**

Fabricates or repairs leather articles such as wallets, cases, harness and saddles using clicking, skiving, and sewing machines and hand sewing techniques, performing any combination of the following duties.

Cuts leather to specified size and shape and bevels edges using clicking and skiving machine. Fastens parts together using rivets and sewing machine or adhesive. Attaches eyelets and metal decorations to article using hammer and punch or embossing tools. Hand sews using needles and awl and stitch gauge punch. Stains finished edged using raven oil or beeswax. Uses dyes and polish to restore leather articles.

May be designated according to article fabricated, e.g.  
 Harness Maker                      Luggage Maker  
 Saddle Maker

**Job Content Factors**

<b>Workers</b>	
FP: GE9-10y PSP1-4y(B) / (T) or FP: GE9y	IP: T2-4y
HC: RA	RQ: V2
<b>Materials</b>	
SM: T1	EQ: S1 M1
<b>Functions</b>	
MA: D3 R3 M3 L2	SA: S1 L2
PA: P2 U1 C2 S2 W2 E3	
<b>Context</b>	
EC: L1 C09	TC: A1 I2 R2
SS: 4	SC: 4 (vy)
LMS: NA (10%SE)	ASIC: 345

**6615-B CANVAS WORKER**

Lays out, cuts and assembles canvas or similar materials into products such as awnings, tents, tarpaulins, horse rugs and caravan annexes or carries out repairs to such products.

Lays out full scale drawings on floor according to blueprints or sketches. Cuts pattern from paper according to full scale drawing. Marks outline to material with crayon. Cuts material with shears or power cutter. Sew sections of material together using sewing machine. Measures and marks for grommet holes on material. Punches holes using mallet punch and hardwood block or anvil. Attaches grommets, metal fittings and fastenings to product by machine or hand sews grommets. Secures ropes or cables to finished article using hand tools. Wraps and sews parts of rope or wire that are subject to chafing.

May stencil company title on article using stencil and ink brush. May be designated according to product or duties performed, e.g.

Canvas Repairer

Tarpaulin Maker

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE9-10y PSP1y(B)	IP: T1-4y
HC: R	RQ: V1
<b>Materials</b>	
SM: D2 T1	EQ: P2 S1 M1
<b>Functions</b>	
MA: A2 D2 R3 M3 L3	SA: S1 L2 B2 R4
PA: P2 U1 C1 S2 W2 E3	
<b>Context</b>	
EC: L1 C09	TC: A1 I2 R2
SS: 4	SC: 4 (vy)
LMS: NA (10%SE)	ASIC: 235,345

**6615-C SAILMAKER**

Calculates dimensions and allowances and lays out pattern of sail employing knowledge of sail patternmaking techniques.

Analyses sail requirements for particular type, size and usage of boat. Calculates sail dimensions, using sail-calculation tables. Computes dimensional allowances for hemming and stretching of sail-cloth and for draft and roach of sail, using sail-specification computer card. Draws full size pattern of sail on floor, employing knowledge of sail patternmaking techniques, using chalk, chalk line and measuring tape. Spreads sail-cloth over floor pattern, marks pattern outline on cloth and cuts into parts for subsequent assembly, using pencil and hand shears.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE9-10y PSP1y(B)	IP: T2-4y
HC: R	RQ: U2 V1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P1 S2 M1
<b>Functions</b>	
MA: A2 D2 R3 M2 L3	SA: S2 L2 I2 B2 R4
PA: P2 U1 C1 S2 W2 E3	
<b>Context</b>	
EC: L1 C09	TC: A1 I1 T2
SS: 4	SC: 8 (vy)
LMS: NA (30%SE)	ASIC: 235

## 6616 TEXTILE FABRICATING, ASSEMBLING AND REPAIRING APPRENTICE OCCUPATIONS

This unit group covers occupations concerned with learning the trades of tailoring, upholstery and bedding and mattress making.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal age requirement is 15 years.

**Activities include** performing the duties as described under Master Title APPRENTICE.

### 6616-A APPRENTICE TAILOR

Receives instruction and training in the trade of tailoring.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

##### Workers

FP: GE10y IP:  
HC: ARS RQ: Q2 U1 V1

##### Materials

SM: I2 P2 T1 EQ: S1 M1

##### Functions

MA: D2 R3 M3 L2  
PA: P2 U2 C1 S2 W2 E2 SA: S2 I1

##### Context

EC: L1 C09 TC: A1 I2  
SS: 2 SC: 5 (vy)

LMS: NA (0 %SE) ASIC: 23

### 6616-B APPRENTICE UPHOLSTERER

Receives instruction and training in the trade of upholstery.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

##### Workers

FP: GE10y IP:  
HC: RA RQ: U2 V1

#### Materials

SM: D2 T1 EQ: P2 S1 M1

#### Functions

MA: D3 R4 M3 L3  
PA: P1 U2 C1 H2 S2 W1 E3 SA: S2 L2

#### Context

EC: L1 C09 TC: A1 I2  
SS: 2 SC: 5 (vy)

LMS: NA (0 %SE) ASIC: 254

### 6616-C APPRENTICE BEDDING AND MATTRESS MAKER

Receives instruction and training in the trade of bedding and mattress making.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

##### Workers

FP: GE10y IP:  
HC: RA RQ: U2 V1

##### Materials

SM: T1 EQ: S1 M1

##### Functions

MA: D3 R3 M3 L3  
PA: P2 U2 C2 W1 E3 SA: S2 L2

##### Context

EC: L1 C09 TC: A1 R2  
SS: 2 SC: 5 (vy)

LMS: NA (0 %SE) ASIC: 254

## 6619 OTHER TEXTILE FABRICATING, ASSEMBLING AND REPAIRING OCCUPATIONS

This residual unit group covers occupations, not elsewhere classified, concerned with fabricating, assembling and repairing products made of fur, leather, textile and similar materials.

**Activities include** examining, cutting, joining by sewing, by hand or machine, shaping, gluing, altering and fabricating.

### 6619-A MENDER, TEXTILE PRODUCTS

Mends defective stitching or tufting on articles, such as bedspreads, bath mats, robes or rugs by hand or machine.

Mounts rolls of material in brackets of examining frame or places bundle of articles on work table. Examines material or article for defects and ravel defective fringing, stitching or tufting by hand or using razor blade. Operates equipment.

such as sewing machine, mending gun and fringing machine to replace defective tufting, fringes or seams. Cuts excess thread from seam ends, tufts and fringes, using scissors.

May clean spots and dirt from articles, using soap and water or cleaning fluid. May repair a particular type of product and be designated accordingly, e.g.

Material Mender                      Mender, Tufted Carpets

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9y	IP: T1m E1y
HC: R1	RQ: V1
<i>Materials</i>	
SM: T1	EQ: S1 M1
<i>Functions</i>	
MA: A2 D3 R4 L3	
PA: P1 U2 C1 H2 S2 W2 E3	SA: S2 L1
<i>Context</i>	
EC: L1 C09	TC: A1 I2
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 23,246,254

6619-B

SEWING MACHINE OPERATOR  
(TEXTILES)  
Joiner (Sewing Machine); Machinist  
(Clothing)

Operates single or multiple-needle sewing machine to join, gather, hem, reinforce, decorate or attach fasteners to textile products such as garments, gloves, hats, awnings, carpets, bags and upholstery.

Selects thread according to specifications of colour or fabric. Places spool on spindle and draws thread through machine guides, tensions and needle eye. Inserts bobbin into shuttle and draws thread through slot in shuttle wall, or draws thread through guide and looper-eye. Presses knee lever, depresses pedal, or moves hand lever to raise presser foot or spread feed cups. Positions parts to be sewn under presser foot. Starts, stops and controls speed of machine with pedal or knee lever and guides parts under needle, following edges, seams or markings on parts. Observes stitching to detect defects and notifies repairman/woman of machine malfunctions. Cuts excess material or thread from items, using blade attached to machine, or scissors. Lubricates machine using oil can.

May change needles and secure modifying attachments to machine. May be concerned with operating a specific type of machine, or sewing a particular part or article and be designated accordingly, e.g.

Blindstitcher                      Buttonhole Machinist  
Elastic Attacher                  Glove Sewer  
Overlocker                        Plain Machinist  
Seamer                             Sleeve Maker  
Single-Needle Machine Operator  
Multi-Needle Machine Operator  
Hemstitching Machine Operator

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9y	IP: T3-6m E0-6m
HC: R	RQ: V1
<i>Materials</i>	
SM: T1	EQ: S2 M1
<i>Functions</i>	
MA: D3 R4	
PA: P1 U2 C1 H2 S1 E2	SA: S2 L1
<i>Context</i>	
EC: L1 C09	TC: A1 R1
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 23

6619-C

MILLINER  
Millinery Maker; Women's Hat Maker

Fabricates women's hats completely, to customers'

specifications or for stock, from materials such as straw, felt, fabric and fur.

Marks out and cuts patterns to desired size and shape based on original or existing designs or according to customer specifications. Lays pattern on hat material and cuts material following pattern and using shears. Shapes, models, wires, sews, glues and blocks material using hat forms, needle and thread, sewing machine, steamer and hand iron. Sprays sizing solution onto hats to stiffen them as required. Finishes and trims hat using variety of materials.

May shape and trim prefabricated hat bodies to make hats. May renovate hats. May display, fit and sell hats and accessories.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE9y	IP: T3-4y
HC: RAE	RQ: Q2 U2 V1
<i>Materials</i>	
SM: D2 I2 P2 T1	EQ: S1 M1
<i>Functions</i>	
MA: A2 P2 D2 R3 M3 L2	
PA: P1 U2 C2 S2 W2 E1	SA: S2 L2 I1 B2 R4
<i>Context</i>	
EC: L1	TC: A1 T2
SS: 4	SC: 4 (vy)
LMS: NA (50%SE)	ASIC: 245,484

6619-D

BRUSHMAKER

Prepares bristles, horsehair, nylon and other brush-filling materials for use in brushes, according to specifications, and blends several qualities of bristly on mixing machine, fills metal ferrules and operates machinery for the manufacture of various types of brushware.

Performs one or a combination of the following duties. Opens cases of hog bristles, using hand tools. Aligns bristles to ensure that butt ends are together, and discards defective bristles. Ties bundle of bristles to prevent bending, using rubber bands, and places bundle in rack. Lowers rack of bundles into vat of boiling water to sterilise and remove curl of bristles. Removes rack after specified time and places on dolly to dry. Places bundles in cartons, and labels cartons according to length, origin, grade and colour of contents. Prepares other brush-filling materials by straightening, combing, cutting and tying them into bundles according to type of material and intended use. Trims and flats butt ends, and polishes material using grinding machine.

May specialise in a particular operation of brush manufacture and be designated accordingly,

Brush Material Blender              Brush Material Preparer  
Brush Final Assembler/Trimmer  
Brushmaking Machine Operator

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE NFR	IP: T2-12m
HC: R	RQ: D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 M1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: P2 U1 C2 H1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C08,02,01	TC: A1 I2 R2
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 348

6619-Z

TEXTILE FABRICATING, ASSEMBLING  
AND REPAIRING OCCUPATIONS nec

This residual group includes textile, fur and leather fabricating, assembling and repairing occupations not elsewhere classified in Unit Group 6619.

MINOR GROUP 662  
SHOEMAKING AND REPAIRING OCCUPATIONS

Shoemaking and Repairing Occupations are classified in the following unit groups.

- 6620 Foremen/women, Shoemaking and Repairing Occupations
- 6621 Shoemaking and Repairing Trade Occupations
- 6622 Apprentice Shoemaking Occupations
- 6623 Shoemaking Production Process Workers

6620 FOREMEN/WOMEN, SHOEMAKING AND REPAIRING OCCUPATIONS

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in shoemaking and repair.

**Entry Requirements** a trade qualification in a relevant area and up to 10 years experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

6620-A FOREMAN/WOMAN, SHOEMAKING AND REPAIRING OCCUPATIONS

Supervises and co-ordinates activities of workers engaged in making and repairing leather, leather-soled and fabric-topped footwear.

Performs duties as described under Master Title SUPERVISOR/ FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.

- Foreman/woman, Clicking Department
- Foreman/woman, Cutting Room (Shoemaking)

Job Content Factors	
Workers	
FP: GE10y PSP3-4y(T)	IP: T2m E5-10y
HC: RIE	RQ: U2 V1
Materials	
SM: D2 P2 T1	EQ: P2 S2 M2
Functions	
MA: I2 A1 P1 D2 R2 M2 L2	
PA: P2 U2 C2 S2 W2 E2	SA: S2 L2 B1 R3-4
Context	
EC: L1 C09	TC: A1 I1 T2
SS: 6	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 246,484

6621 SHOEMAKING AND REPAIRING TRADE OCCUPATIONS

This unit group covers occupations concerned with footwear fabrication and repair.

**Entry requirements** a trade qualification in the relevant area.

**Activities include** the cutting, assembling, gluing, sewing and finishing of footwear according to customer requirements or pattern specifications.

6621-A CLICKER  
Cutter, Shoemaking

Cuts shoe parts from leather or other materials by hand or by machine.

Selects material and cutting dies according to specifications on work ticket. Lays material on cutting bed of machines and positions die on material so that maximum number of shoe parts can be obtained. Ensures that grain, finish and pattern of parts match when assembled. Pulls stamper over die and pushes handle or pedal to lower stamper onto die and cut

parts. Bundles or boxes parts and marks them with data such as size, style and cut. Alternatively can cut out shoe parts using hand knife.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP3-4y(T)	IP:
HC: RI	RQ: V1
<b>Materials</b>	
SM: D2 T1	EQ: P2 S1 M1
<b>Functions</b>	
MA: P2 D2 R3 M3 L3	
PA: P1 U2 C1 H2 W1 E3	SA: S1 L2 B2 R4
<b>Context</b>	
EC: L1 C09	TC: A1 I2 R2
SS: 4	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 246

**6621-B MACHINIST, SHOEMAKING**

Operates single, double or multiple-needle stitching machine to join, decorate or reinforce shoe parts.

Selects and places spool of thread on spindle or looper, and draws thread through guides, slots and needles. Aligns parts and presses knob control of pedal to raise presser foot or roller. Starts machine and guides parts under needle, following seams, edges or marking, or moves edges of part against guide. Cuts and trims excess thread or material from parts using scissors or knife.

May be designated according to type of machining being performed, e.g.

- Bender (Shoemaking)
- Plain Machinist (Shoemaking)
- Post Machinist (Shoemaking)
- Run-on Binder
- Thermo Binder
- Turnover Binder
- Zig-Zag Machinist (Shoemaking)

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP3-4y(T)	IP:
HC: R	RQ: V1
<b>Materials</b>	
SM: T1	EQ: P1 S2 M1
<b>Functions</b>	
MA: D3 R4 L3	
PA: P1 U2 C1 S1 W2 E2	SA: S1 L2
<b>Context</b>	
EC: L1 C09,04	TC: A1 I2 R1
SS: 3	SC: 3 (1 y)
LMS: NA (0 %SE)	ASIC: 246

**6621-C LASTER  
Puller, Footwear**

Shapes and joins upper parts of footwear to insole, performing any combinations of the following duties.

Tacks insole on last. Positions and secures last in holding device. Pulls upper onto last by machine to shape toe, vamp, and quarters of shoe, or stretches edges of upper over last, using lasting tool. Secures bottom of upper in pincers of machine while holding it evenly and closely over edge of insole. Attaches folded part of upper to insole by operating tacking device, by spreading adhesive substance along edge of insole, or by pressing pre-cemented upper onto insole.

May perform certain lasting operations by hand rather than machine. May be designated according to securing device employed, or part lasted, e.g.

- Seat Back Laster
- Thermo Side Laster
- Welt Toe Laster
- Staple Side Laster
- Toe Laster

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP3-4y(T)	IP:
HC: R	RQ: V1
<b>Materials</b>	
SM: T1	EQ: S1 M2
<b>Functions</b>	
MA: D3 R4 L3	
PA: P1 U2 C1 S2 W2 E2	SA: S2 L2
<b>Context</b>	
EC: L1 C09,02	TC: A1 I2 R2
SS: 4	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 246

**6621-D SHOEMAKER**

Makes custom boots or shoes, using hand and machine tools.

Selects patterns and leather for upper parts, and outlines patterns on leather. Cuts out parts with scissors or knife, and sews parts together on machine to form uppers. Marks and punches out eyelets, inserts metal rings, and clips rings on machine. Selects or assembles last, tacks insole to last and draws upper over last, tacking it in place. Trims upper with knife, and sews on welt. Sewes outer sole to lasted upper or cements sole in place. Trims and buffs edge of sole and heel, using knife and buffing wheel. Brushes dressing dye on shoe and polishes shoe with rotating power brush.

May make footwear for people with leg and foot problems or abnormalities and be designated accordingly, e.g.

- Bespoke Shoemaker
- Surgical Shoemaker

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP3-4y(T)	IP:
HC: RAC	RQ: U2 V1
<b>Materials</b>	
SM: P2 T1	EQ: P2 S1 M1
<b>Functions</b>	
MA: I2 A2 P2 D2 R3 M3 L2	
PA: P1 U2 C1 S2 W2 E2	SA: S1 I1 B2 R4
<b>Context</b>	
EC: L1 C09,04	TC: A1 I1 R2
SS: 4	SC: 4 (vy)
LMS: 1600-2000(20%SE)	ASIC: 246,484

**6621-E SHOE REPAIRER**

Repairs or refinishes shoes, following customer specifications or according to nature of damage or type of shoe.

Positions shoe on last and pulls and cuts off shoe or heel with pincers and knife. Starts machine and holds welt against rotating sanding wheels or rubs it with sandpaper to bevel and roughen welt for attachment of new sole. Selects blank or cuts sole or heel piece to approximate size from material, using knife. Brushes cement on new sole or heel piece and on shoe welt and shoe heel. Positions sole over shoe welt or heelpiece on shoe heel, drives nails around sole or heel edge into shoe, or guides shoe and sole under needle of sewing machine to fasten sole to shoe. Trims sole or heel edge to shape of shoe, using knife. Holds and turns shoe sole on heel against revolving abrasive wheel to smooth edge and remove excess material. Restitches ripped portions or sews patches over holes in shoe uppers by hand or machine.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP3-4y(T)	IP:
HC: RE	RQ: V1
<b>Materials</b>	
SM: P2 T1	EQ: S1 M2
<b>Functions</b>	
MA: A2 P2 D2 R3 M3 L3	
PA: P1 U2 C1 S2 W2 E2	SA: S1 I2 B2 R4

*Context*

EC: L1 C09,02  
SS: 4

TC: A1 I2 T2  
SC: 4 (vy)

LMS: 1000-1300(80%SE)

ASIC: 246,484

## 6622 APPRENTICE SHOEMAKING OCCUPATIONS

This unit group covers occupations concerned with learning the shoemaking trade.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

### 6622-A APPRENTICE SHOEMAKER

Receives instruction and training in the shoemaking trade.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors**Workers*

FP: GE10y  
HC: R

IP:  
RQ: U2 V1

*Materials*

SM: P2 T1

EQ: S1 M2

*Functions*

MA: D3 R4 M3 L3

PA: P2 U2 C2 S2 W2 E2

SA: S2 L2

*Context*

EC: L1 C09,02

SS: 2

TC: A1 I2 R2

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 246

## 6623 SHOEMAKING PRODUCTION PROCESS WORKERS

This unit group covers occupations concerned with process working duties in the manufacture and repair of shoes.

**Entry Requirements** Year 8-9.

**Activities include** cutting leather and linings, trimming, sewing, finishing or tending machines that perform basic finishing functions on shoes.

*Related Occupations*

Minor Group 631 : Plastics Production Occupations  
Minor Group 632 : Rubber Production Occupations

### 6623-A PROCESS WORKER, SHOE CUTTING

Cuts shoe linings from leather or other materials using a clicking machine or a continuous cutting machine if large quantities are to be cut.

Reads work order and selects specified dies. Positions material on cutting bed of machine to obtain maximum number of parts. Depresses pedal and moves lever to activate ram that forces single or multiple dies through material. Removes cut parts from machine. Selects sample and verifies conformance with standard pattern. Places cut parts in storage area according to size, shape and quality.

*Job Content Factors**Workers*

FP: GE8- 9y

HC: R

IP: T4-8w

RQ: V2

*Materials*

SM: T1

EQ: S2 M1

*Functions*

MA: D3 R4 L3

PA: U1 C1 H1 W1 E3

SA: S2 L1

*Context*

EC: L1 C09

SS: 3

TC: A1 I2 R1

SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 246

# 6623-B PROCESS WORKER, SHOE MACHINING

Tends machines that perform basic assembly functions on shoes.

Places spool of thread on spindle or looper and draws thread through guides, slots and needles. Presses knob control of pedal to raise presser foot or roller. Guides parts under needle, following seams, edges or marking, or moves edges of part against guide. Trims excess thread or material from parts using scissors or knife.

May tend machine that bevels edges of shoe parts, or that puts eyelets into lace-up shoe parts, or that ties string through shoe eyelets to close throat, prior to lasting operations, and be designated,

Skiver Eyelet Machine Operator  
Lacing Machine Operator

## Job Content Factors

<i>Workers</i>	
FP: GE8- 9y	IP: T4-6w
HC: R	RQ: V2
<i>Materials</i>	
SM: T1	EQ: S1 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 C1 H1 S2 W2 E2	SA: S2 L1
<i>Context</i>	
EC: L1 C09	TC: A1 I2 R1
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 246

# 6623-C PROCESS WORKER, SHOEMAKING

After shoes are machined, performs a number of functions necessary to prepare the shoe for finishing.

Tends machine that flattens and smoothes shoe parts. Tends machine that smoothes or roughens shoe parts. Applies cement by brush. Scours underside of upper on last. Tacks on insoles.

May perform specific activities and be designated accordingly,  
Cementer (Shoemaking) Pounder (Shoemaking)  
Scourer (Shoemaking)

## Job Content Factors

<i>Workers</i>	
FP: GE8- 9y	IP: T4-6w
HC: R	RQ: V2

<i>Materials</i>	
SM: T1	EQ: S2 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U2 H1 S2 W1 E2	SA: S2 L1
<i>Context</i>	
EC: L1 C09	TC: A1 I2 R2
SS: 5	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 246

# 6623-D PROCESS WORKER, SHOE FINISHING

Finishes the shoe and ensures quality and finish comply with standard.

Removes surplus material from shoe parts; finishes leather covered wooden heels; tends machine that trims edge of shoe parts, such as heels, outsoles and uppers.

May perform specific activities and be designated accordingly  
Edge Trimmer Shoe Parts Trimmer  
Wood-Heel Finisher

## Job Content Factors

<i>Workers</i>	
FP: GE8- 9y	IP: T4-6w
HC: R	RQ: V2
<i>Materials</i>	
SM: T1	EQ: S1 M1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H2 S2 W2 E2	SA: S2 L1
<i>Context</i>	
EC: L1 C09	TC: A1 I2 R1
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: 246

# 6623-Z SHOEMAKING PRODUCTION PROCESS WORKERS nec

Engages in a varying number of elementary duties associated with footwear manufacture.

Performs any combination of the duties required for the making, finishing and presentation of shoes.

May perform any combination of the duties of elementary footwear occupations, e.g.

Bottom Wheeler Boxer  
Inker Machine Operator Nail Cutter/Shocker  
Shoe Dyer Socker

## **MAJOR GROUP 67**

### **PRINTING OCCUPATIONS**

Printing Occupations are classified in the following minor groups.

- 670 Composition and Graphic Reproduction Occupations
- 671 Printing Machining Occupations
- 672 Printing Occupations (Other)

#### *Related Occupations*

- |                   |  |
|-------------------|--|
| Major Group 30    | : Artistic, Literary and Sport Occupations |
| Major Group 40    | : Clerical Occupations                     |
| Major Group 71    | : Materials Handling Occupations           |
| Occupation 8020-L | : General Hand, Printing                   |

# 67 PRINTING OCCUPATIONS

## 670 COMPOSITION AND GRAPHIC REPRODUCTION OCCUPATIONS

### 6700 SUPERVISORS, COMPOSITION AND GRAPHIC REPRODUCTION OCCUPATIONS

6700-A Composing Department Supervisor  
6700-B Graphic Reproduction Department Supervisor

### 6701 COMPOSITION TRADE OCCUPATIONS

6701-A Compositor

### 6702 GRAPHIC REPRODUCTION TRADE OCCUPATIONS

6702-A Image Preparer  
6702-B Plate Preparer  
6702-C Photopolymer Plate Preparer  
6702-D Cylinder Preparer

### 6703 COMPOSITION AND GRAPHIC REPRODUCTION OCCUPATIONS (OTHER)

6703-A Keyboard Operator/Assembler

### 6704 APPRENTICE COMPOSITION AND GRAPHIC REPRODUCTION OCCUPATIONS

6704-A Apprentice Compositor  
6704-B Apprentice Graphic Reproducer

## 671 PRINTING MACHINING OCCUPATIONS

### 6710 SUPERVISORS, PRINTING MACHINE OCCUPATIONS

6710-A Printing Press Room Supervisor

### 6711 LETTERPRESS PRINTING MACHINING TRADE OCCUPATIONS

6711-A Letterpress Printing Machinist

### 6712 LITHOGRAPHIC PRINTING MACHINING TRADE OCCUPATIONS

6712-A Lithographic Printing Machinist

### 6713 FLEXOGRAPHIC AND/OR GRAVURE PRINTING MACHINING TRADE OCCUPATIONS

6713-A Flexographic and/or Gravure Printing Machinist

### 6714 PRINTING MACHINING NON-TRADE OCCUPATIONS

6714-A Machinist, Metropolitan Newspaper Press  
6714-B Small Offset Lithographic Printing Machinist

### 6715 APPRENTICE PRINTING MACHINING OCCUPATIONS

6715-A Apprentice Printing Machinist

## 672 PRINTING OCCUPATIONS (OTHER)

### 6720 SUPERVISORS, PRINTING OCCUPATIONS (OTHER)

6720-A Supervisor, Printing Occupations (Other)

### 6721 PRINTING TRADE OCCUPATIONS (OTHER)

6721-A Bookbinder  
6721-B Guillotine Operator, Bookbinding  
6721-C Stereotyper and/or Electrotyper  
6721-D Screen Printing Stencil Preparer  
6721-Z Printing Trade Occupations (Other) nec

### 6722 APPRENTICE PRINTING OCCUPATIONS (OTHER)

6722-A Apprentice Binder and Finisher  
6722-B Apprentice Stereotyper and/or Electrotyper  
6722-C Apprentice Screen Printing Stencil Preparer

### 6729 OTHER PRINTING NON-TRADE OCCUPATIONS

6729-A Printing Machine Operator  
6729-B Carton Cutting and Creasing Forme Setter  
6729-Z Printing Non-Trade Occupations nec

**MINOR GROUP 670**  
**COMPOSITION AND GRAPHIC REPRODUCTION OCCUPATIONS**

Composition and Graphic Reproduction Occupations are classified in the following unit groups.

- 6700 Supervisors, Composition and Graphic Reproduction Occupations
- 6701 Composition Trade Occupations
- 6702 Graphic Reproduction Trade Occupations
- 6703 Composition and Graphic Reproduction Occupations (Other)
- 6704 Apprentice Composition and Graphic Reproduction Occupations

*Related Occupations*

- Unit Group 3001 : Designers and Illustrators
- Unit Group 3002 : Commercial Art Support Occupations

**6700 SUPERVISORS, COMPOSITION AND GRAPHIC REPRODUCTION OCCUPATIONS**

This unit group covers occupations concerned with supervising and co-ordinating activities of workers engaged in composition and graphic reproduction and related tasks.

**Entry Requirements** a trade qualification in an appropriate area; at least 5 years' experience; completion of post-trade qualifications in supervision/management is highly desirable.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**6700-A**

**COMPOSING DEPARTMENT SUPERVISOR**

Supervises and co-ordinates the activities of workers engaged in preparing typesetting in galley and page format.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May also perform costing and estimating duties.

*Job Content Factors*

*Workers*

FP: GE10y PSP5-6y(PPC) / (T)  
HC: ICE

IP: E5y  
RQ: Q1 D2 V1 A2

*Materials*

SM: D1 I2 P2 T2

EQ: P2 S2 M2 K2

*Functions*

MA: A2 P1 D2 R2 M2 L1  
PA: P2 S2 W1 E2

SA: S1 L2 I2 B1 R3-4

*Context*

EC: L1 C05,01,04  
SS: 9

TC: A1 I1 T1  
SC: 9 ( 0y)

LMS: 1050 (0 %SE)

ASIC: 264

**6700-B**

**GRAPHIC REPRODUCTION DEPARTMENT SUPERVISOR**

Supervises and co-ordinates the activities of workers engaged in the preparation of images for subsequent reproduction and related tasks.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May also perform costing and estimating duties.

*Job Content Factors*

*Workers*

FP: GE10y PSP5-6y(PPC) / (T)  
HC: RAE

IP: E5y  
RQ: Q1 D1 V1

*Materials*

SM: D2 P2 T1

EQ: P2 S1 M1

*Functions*

MA: A2 P1 D2 R2 M2 L1  
PA: P1 U2 C2 S2 W2 E2

SA: S1 L2 I2 B1 R2-4

*Context*

EC: L1 C08,09  
SS: 9

TC: A1 I1 T1  
SC: 10 ( 5y)

LMS: 920 (0 %SE)

ASIC: 264

### 6701 COMPOSITION TRADE OCCUPATIONS

This unit group covers occupations concerned with assembling and setting type in readiness for printing.

**Entry Requirements** qualifications at trade level in composing.

**Activities include** assembling metal type; casting display type; substituting corrected type for that containing errors; operating keyboard-controlled typesetting machine or tape perforating machine; and 'keying-in' and manipulating copy on visual display terminal.

*Related Occupation*

Occupation 3002-C : Paste-up Artist

#### 6701-A COMPOSITOR

Composes (assembles) type and other material by hand or machine into format appropriate for printing.

Has knowledge of type faces and sizes and their combinations which lead to understanding of style, proportion and design. Has knowledge of colour, weight, texture and price of paper. Is involved in the design of each job. Prepares layouts; assembles, plans, imposes and makes-up pages in either metal, bromide or film. Undertakes one of the following procedures. Sets up and operates keyboard-controlled typesetting machine to cast lines of type in hot metal and/or cold type, following copy and instructions regarding typeface, typesize and line length supplied by journalists, sub-editors or writers. Casts corrected lines to be substituted for those containing errors. Sets up and operates keyboard-controlled tape perforating machine to produce tape used to program typesetting machine or photographically set type onto photosensitive paper. 'Keys in' and manipulates copy on visual display terminal (VDT), according to specifications and job requirements, which is then transferred to disc or magnetic tape.

May undertake proof reading and/or revising, work up, cast off and coding of copy. May be designated according to type of composing undertaken or machine used, e.g.

Linotype Operator	Machine Compositor
Photo Compositor	Phototypesetter

May compose type by hand; assembles metal type, blocks and other material used in making advertisements, for example, into 'galleys' (trays) or page-sized 'formes' (assemblages), according to work sheet instructions, for printing by any of the reproductive processes (lithography, gravure, flexography, letterpress). Casts 'slugs' (lines) of display type (used in making headlines, for example) using Ludlow machine. Substitutes corrected letters or lines for those containing errors as identified by proof reader from galley proofs pulled by compositor, and be designated accordingly, e.g.

*Hand Compositor*

*Job Content Factors*

*Workers*

FP: GE10y PSP4y(T)  
HC: RAC

IP:  
RQ: Q1 U2 D2 V1

*Materials*

SM: D1 I2 P2 T2

EQ: S1 M2 K2

*Functions*

MA: A2 P2 D2 R2 M2 L1  
PA: P2 U1 S2 W2 E3

SA: S2 L1 B2 R4

*Context*

EC: L1 C09.01.04  
SS: 7

TC: A1 I1 T2  
SC: 8 ( 3y)

LMS: 17500 (0 %SE)

ASIC: 264

### 6702 GRAPHIC REPRODUCTION TRADE OCCUPATIONS

This unit group covers occupations concerned with graphic reproduction.

**Entry Requirements** qualifications at trade level in graphic reproduction.

**Activities include** 'planning' (assembling) film negatives; chemically treating plate or cylinder and photoimposing negative; operating photographic equipment to produce and process film; operating platemaking and processing equipment; and treating and finishing plate or cylinder.

*Related Occupations*

Occupation 3002-D	: Photograph Retoucher
Occupation 3002-E	: Studio Assistant
Occupation 3000-B	: Photographer
Occupation 3000-C	: Printmaker

**6702-A IMAGE PREPARER**  
**Plate Printer; Process Engraver**

Prepares and produces film, in negative or positive form, from which printing surface, plate or cylinder is made.

Undertakes some or all of the following tasks. 'Plans' (joins pieces of film negatives) to produce desired image. Operates graphic camera or other photographic equipment to reproduce artwork on film. Develops film, either manually or by film processor. Carries out colour separation, dot etching and retouching, opaquing, stripping (removing photographic emulsion from backing and transferring it to glass plate for photoengraving), planning and colour correcting, using conventional chemical and photographic apparatus and techniques or electronically operated cameras, colour scanners and other equipment, including laser-beam image preparation apparatus for direct imaging of plates. Prepares continuous tone negatives and screen positives.

May carry out specialist duties and be designated accordingly, e.g.

- Gravure Camera Operator
- Half-Tone Etcher
- Photoengraving Camera Operator
- Retoucher, Image Preparation

Job Content Factors	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RAC	RQ: Q1 D1 V1
<i>Materials</i>	
SM: D2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: A2 D2 R3 M2 L2	
PA: P1 U2 C2 S2 W2 E2	SA: S1 L2 I2 B2 R4
<i>Context</i>	
EC: L1 C08,05	TC: A1 I1 R2 T2
SS: 9	SC: 9 (vy)
LMS: 2900 (5 %SE)	ASIC: 264

**6702-B PLATE PREPARER**  
**Plate Maker**

Prepares and makes (lays) printing plate, except in metropolitan newspapers where direct printing plates are used.

Undertakes some or all of the following tasks. 'Plans' (assembles) film negatives to produce desired negative image. Chemically treats zinc, aluminium and/or copper plate to induce photosensitivity and exposes plate through planned film negative ('photoimposition'). Operates platemaking and processing equipment, such as vacuum frame or automatic plate processor, 'step-and-repeat' machine (to produce multiple-image plates and film) or photopolymer or laser platemaking equipment. Etches, washes out and finishes photoengraving, using precision tools such as routers and drills. Prints and examines proof to verify quality of prepared plate.

May specialise in retouching and be designated, e.g.  
Retoucher, Plate Preparation

May specialise in arranging film positives or negatives in final layout in readiness for printing on photogravure cylinders or lithographic plates and be designated accordingly, e.g.  
Planner, Composing

Job Content Factors	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RCA	RQ: Q1 D1 V1

Materials	
SM: D2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: A2 D2 R3 M2 L2	
PA: P1 U2 C2 S2 W2 E3	SA: S1 L2 I2 B2 R4
<i>Context</i>	
EC: L1 C08,09	TC: A1 I1 T2
SS: 9	SC: 9 (vy)
LMS: 850 (0 %SE)	ASIC: 264

**6702-C PHOTOPOLYMER PLATE PREPARER**  
**Flexographic Platemaker**

Prepares photopolymer printing plates from photographic negatives for use in printing on packages etc.

Cuts flexographic using ultra-violet light to regulate relief depth of image. Peels sheet off top of plate and places negative in position on top of plate. Turns on pump to activate vacuum to keep negative flat on plate. Sets exposure timer according to requirements and exposes plate. Attaches exposed plate to drum which rotates in solvent to remove the unwanted areas but leaving the relief image; places plate in drier. Repeats solvent and drying treatment. Puts plate in drying rack for specified time (several hours) then immerses plate in acid bath to remove stickiness of plate. Carries out post exposure of plate to harden surface. Trims plate and prepares it for delivery to customer.

Job Content Factors	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: T3-6m
HC: RCA	RQ: Q1 D1 V1
<i>Materials</i>	
SM: D2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: A2 D2 R3 M2 L2	
PA: P1 U2 C2 S2 W2 E2	SA: S1 L2 I2 B2 R4
<i>Context</i>	
EC: L1 C08,09	TC: A1 I1 T2
SS: 9	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: 264

**6702-D CYLINDER PREPARER**  
**Cylinder Maker**

Prepares and makes cylindrical plate for use in gravure printing.

Undertakes some or all of the following tasks. 'Plans' (assembles) and retouches film negatives to produce desired negative image. Photoimposes and etches negative onto cylinder. Applies acid-resistant coating to cylinder during etching. Prints and examines proof to verify quality of etching. Polishes, grinds and finishes cylinder to ensure surface is completely smooth and of a consistent diameter. Carries out revising, correcting and proofing.

Job Content Factors	
<i>Workers</i>	
FP: GE10y PSP4y(T)	IP:
HC: RCA	RQ: Q1 D1 V1
<i>Materials</i>	
SM: D2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: A2 D2 R3 M2 L2	
PA: P1 U2 C2 S2 W2 E4	SA: S1 L2 I2 B2 R4
<i>Context</i>	
EC: L1 C08,09	TC: A1 I1 T2
SS: 9	SC: 9 (vy)
LMS: 350 (0 %SE)	ASIC: 264

**6703 COMPOSITION AND GRAPHIC REPRODUCTION OCCUPATIONS (OTHER)**

This unit group covers occupations concerned with composition and graphic reproduction.

**Entry Requirements** Year 9-10 and a sound comprehension of the English language, its grammar and usage.

**Activities include** some of the following: checking and marking proof to identify errors; operating keyboard-controlled tape perforating or photocomposing machines; and basic assembly and paste-up operations.

*Related Occupations*

Occupation 4099-B : Proof Reader

**6703-A KEYBOARD OPERATOR/ASSEMBLER**

Operates keyboard-controlled photocomposing, tape perforating machines and visual display units and/or performs basic artwork assembly tasks.

Performs some of the simpler duties of 6701-A COMPOSITOR and/or 3001-B GRAPHIC DESIGNER, e.g. operates pre-set keyboard-controlled tape perforating or photocomposing machines or visual display units to input straightforward material such as classified advertising as it is received; or performs simple assembly or paste-up operations such as page numbers or sub-headings.

*Job Content Factors*

*Workers*

FP: GE9-10y

HC: RSC

IP: T3-6m

RQ: V1

*Materials*

SM: D2 T1

EQ: S2 M2 K1

*Functions*

MA: A2 D2 R3 M3 L2

PA: C1 S1 W2 E1

SA: S2 L2

*Context*

EC: L1 C13

SS: NA

TC: A1 I2 R2 T2

SC: NA

LMS: NA (0 %SE)

ASIC: 264

**6704 APPRENTICE COMPOSITION AND GRAPHIC REPRODUCTION OCCUPATIONS**

This unit group covers apprentice occupations concerned in composition and graphic reproduction.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

**6704-A APPRENTICE COMPOSITOR**

Receives instruction and training in the trade of composition.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors*

*Workers*

FP: GE10y

HC: RAC

IP:

RQ: Q1 U2 D2 V1

*Materials*

SM: D1 P2 T2

EQ: S1 M2 K2

*Functions*

MA: D2 R3 M2 L1

PA: P2 U1 S2 W2 E3

SA: S1 L2

*Context*

EC: L1 C09,01

SS: 1

TC: A1 I2

SC: 3 ( 4y)

LMS: NA (0 %SE)

ASIC: 264

**6704-B APPRENTICE GRAPHIC REPRODUCER**

Receives instruction and training in the trade of graphic reproduction.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors*

*Workers*

FP: GE10y

HC: RCA

IP:

RQ: Q1 D2 V1

*Materials*

SM: D2 T1

EQ: S1 M1

*Functions*

MA: D2 R3 M2 L1

PA: P1 U2 C1 S2 W2 E3

SA: S1

*Context*

EC: L1 C08,09,05

SS: 1

TC: A1 I2

SC: 3 ( 4y)

LMS: NA (0 %SE)

ASIC: 264

## MINOR GROUP 671 PRINTING MACHINING OCCUPATIONS

Printing Machining Occupations are classified in the following unit groups.

- 6710 Supervisors, Printing Machine Occupations
- 6711 Letterpress Printing Machining Trade Occupations
- 6712 Lithographic Printing Machining Trade Occupations
- 6713 Flexographic and/or Gravure Printing Machining Trade Occupations
- 6714 Printing Machining Non-Trade Occupations
- 6715 Apprentice Printing Machining Occupations

### 6710 SUPERVISORS, PRINTING MACHINE OCCUPATIONS

This unit group covers occupations concerned with supervising and co-ordinating activities of workers engaged in operating printing presses and related tasks.

**Entry Requirements** a trade qualification in an appropriate area; at least 5 years' experience; completion of post-trade qualifications in supervision/management is highly desirable.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### 6710-A PRINTING PRESS ROOM SUPERVISOR

Supervises and co-ordinates the activities of workers engaged in operating printing presses and related tasks.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May also perform costing and estimating duties.

##### *Job Content Factors*

##### *Workers*

FP: GE10y PSP5-6y(PPC) / (T)  
HC: RAE

IP: E5y  
RQ: Q1 D2 V1 A2

##### *Materials*

SM: D2 P2 T1

EQ: S1 M2 K2

##### *Functions*

MA: A2 P1 D2 R2 M2 L1

PA: P2 U1 W1 E2

SA: S2 L1 I1 B1 R2-4

##### *Context*

EC: L1 C09,04,06

SS: 8-9

TC: A1 I1 T1

SC: 8-10 ( 5y)

LMS: 4000 (0 %SE)

ASIC: 264

### 6711 LETTERPRESS PRINTING MACHINING TRADE OCCUPATIONS

This unit group covers occupations concerned with letterpress printing machining.

**Entry Requirements** qualifications at trade level in printing machining.

**Activities include** preparing and fitting forme preparatory to printing; setting and adjusting controls and functions on press; regulating paper and ink supply during press run; monitoring press's operation to detect malfunctions; undertaking routine maintenance and repair; and maintaining records.

**6711-A LETTERPRESS PRINTING MACHINIST**

Sets up and operates a letterpress printing press.

'Makes ready' the forme containing the image material, photoengravings and/or stereotypes and/or electrotypes and/or hot metal type and/or polymer plates. Sets and adjusts paper-feeder mechanism, delivery mechanism, cylinders, inking and distributor rollers and other machine functions. Prepares paper or board for loading into feeder stack. Mixes ink to standard. Conducts short print run to check print quality and evenness of printing pressure. Regulates paper and ink supply during print run and monitors press's operation in order to detect malfunctions such as paper jams, clogged ink, worn type or colour misalignments. Undertakes routine maintenance, adjustments and repairs. Completes production records.

**Job Content Factors****Workers**

FP: GE10y PSP4y(T)

IP:

HC: RAC

RQ: Q1 D2 V1 A2

**Materials**

SM: D2 T1

EQ: P2 S1 M1 K2

**Functions**

MA: P2 D2 R3 M2 L2

PA: P2 U1 C2 W1 E3

SA: S1 L2 B2 R4

**Context**

EC: L1 C09,08,06

TC: A1 I2 R2

SS: 7

SC: 8 (vy)

LMS: 1260 (2 %SE)

ASIC: 264

**6712 LITHOGRAPHIC PRINTING MACHINING TRADE OCCUPATIONS**

This unit group covers occupations concerned with lithographic printing machining.

**Entry Requirements** qualifications at trade level in printing machining.

**Activities include** preparing and fitting plate preparatory to printing; setting and adjusting controls and functions on press; mixing and matching inks and colours; monitoring press's operation to detect malfunctions; undertaking routine maintenance and repair; and maintaining records.

plates. Responsible for preservation of printing image at completion of run. Undertakes routine maintenance, adjustments and repair. Completes production records.

**Job Content Factors****Workers**

FP: GE10y PSP4y(T)

IP:

HC: RIC

RQ: Q1 D1 V1 A2

**Materials**

SM: D2 T1

EQ: P2 S1 M1 K2

**Functions**

MA: P2 D2 R3 M2 L2

PA: P2 U1 C2 W1 E3

SA: S1 L2 B2 R4

**Context**

EC: L1 C09,08,06

TC: A1 I2 R2

SS: 9

SC: 9 (vy)

LMS: 6250 (2 %SE)

ASIC: 264

**6712-A LITHOGRAPHIC PRINTING MACHINIST**

Sets up and operates an offset lithographic printing press, other than a 'small' offset lithographic printing press (so defined).

Operates a single or multicolour, sheet-fed or web-fed lithographic press. 'Makes ready' the plate, blanket and impression cylinders on the offset lithographic printing press, which generates more than 1.1 kilowatts and/or for which the printed sheets overlap a rectangle 620mm 450mm. Sets and adjusts paper feed mechanism, delivery mechanism, entry and distributor rollers and other machine functions. Prepares paper or board (in sheet or reel form) for loading into feed mechanism. Mixes and matches inks and colours to standard. Monitors machine's operation in order to detect malfunctions such as paper jams or clogged ink. Attends to chemical balance in printing and preservation of printing image on

**6713 FLEXOGRAPHIC AND/OR GRAVURE PRINTING MACHINING TRADE OCCUPATIONS**

This unit group covers occupations concerned with flexographic and/or gravure printing machining.

**Entry Requirements** qualifications at trade level in printing machining.

**Activities include** fitting cylinder to press; finishing and setting blades; setting and adjusting machine controls and functions; mixing inks and solvents; monitoring press's operation to detect malfunctions; undertaking routine maintenance and repair; and maintaining records.

### 6713-A FLEXOGRAPHIC AND/OR GRAVURE PRINTING MACHINIST

Sets up and operates a flexographic or gravure printing press.

Fits printing plate or cylinder to press. Sets 'doctor blades' (designed to remove excess ink from plate or cylinder in gravure process) and grinds and files edges of worn blades. Adjusts web tension, regulates drying and cooling apparatus and paper or other material feeding devices and mixes inks and solvents. Monitors press operation to check print quality and detect malfunctions such as paper jams. Attends to care and presentation of plates and cylinders especially at end of run. Undertakes routine maintenance, adjustments and repairs. Completes production records.

#### Job Content Factors

##### Workers

FP: GE10y PSP4y(T)

HC: RAC

IP:

RQ: Q1 D1 V1 A2

##### Materials

SM: D2 T1

EQ: P2 S1 M1 K2

##### Functions

MA: P2 D2 R3 M2 L2

PA: P2 U1 C2 W1 E3

SA: S1 L2 B2 R4

##### Context

EC: L1 C09,08,06

SS: 8

TC: A1 I2 R2

SC: 9 (vy)

LMS: 500 (0 %SE)

ASIC: 264

## 6714 PRINTING MACHINING NON-TRADE OCCUPATIONS

This unit group covers occupations concerned with the operation of printing presses.

**Entry Requirements** Year 9-10.

**Activities include** a limited range of the activities of workers in Unit Group 6711; or the activities of workers in Unit Group 6712 but in relation to a 'small' offset lithographic printing press (so defined).

### 6714-A MACHINIST, METROPOLITAN NEWSPAPER PRESS

Performs a limited number of the tasks associated with the setting up and operation of a letterpress printing press, in relation to the production of metropolitan newspapers.

Undertakes a limited range of the duties of 6711-A LETTERPRESS PRINTING MACHINIST. Generally specialises either in setting up or operating press.

May specialise in setting up press: "makes ready" the press, sets rollers, changes blankets, sets and controls colour and sets up and adjusts folding mechanism, and be designated accordingly,

Machinist, Class One (Metropolitan Newspaper Press)

May specialise in operating press which involves operating loading/unloading mechanism, loading reels of paper onto the press, glues up and keeps production records, and be designated accordingly,

Machinist, Class Two (Metropolitan Newspaper Press)

#### Job Content Factors

##### Workers

FP: GE9-10y

HC: RIS

IP: T6-12m

RQ: Q2 D2 V1 A1

##### Materials

SM: D2 P2 T1

EQ: P2 S1 M1 W2

##### Functions

MA: A2 D2 R3 M3 L2

PA: P2 U1 C2 W1 E4

SA: L1

#### Context

EC: L1 C09,06,04

SS: 3

TC: A1 I1 R2 T1

SC: 7 ( 6y)

LMS: 1300 (0 %SE)

ASIC: 264

### 6714-B SMALL OFFSET LITHOGRAPHIC PRINTING MACHINIST

Sets up and operates a 'small' offset lithographic printing press (so defined), used in instant print shop and "in house" or "in plant" printing.

Undertakes tasks similar to those of 6712-A LITHOGRAPHIC PRINTING MACHINIST but in relation to an offset lithographic printing press which both generates less than 1.1 kilowatts and produces printed sheets which do not overlap a rectangle 620mm by 450mm.

#### Job Content Factors

##### Workers

FP: GE10y

HC: RCI

IP: T6m

RQ: Q1 D1 V1

##### Materials

SM: D2 T1

EQ: P2 S1 M1

##### Functions

MA: D2 R3 M3 L3

PA: P2 U1 H2 W1 E3

SA: S2 L2

##### Context

EC: L1 C09,06

SS: 5

TC: A1 I2 R2

SC: 7 (vy)

LMS: 3500 (10%SE)

ASIC: 264

## 6715 APPRENTICE PRINTING MACHINING OCCUPATIONS

This unit group covers apprentice occupations in printing machining.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

**6715-A            APPRENTICE PRINTING MACHINIST**

Receives instruction and training in the trade of printing machining.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

*Job Content Factors*

*Workers*

FP: GE10y	IP:
HC: RAC	RQ: Q1 D1 V1 A2

*Materials*

SM: D2 T1	EQ: P2 S1 M1 K2
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*Functions*

MA: D2 R3 M2 L2	
PA: P2 U1 C2 W1 E3	SA: S2 L2

*Context*

EC: L1 C09,06,08	TC: A1 I2 R2
SS: 1	SC: 3 (vy)

LMS: NA (0 %SE)	ASIC: 264
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MINOR GROUP 672  
PRINTING OCCUPATIONS (OTHER)

Printing Occupations (Other) are classified in the following unit groups.

- 6720 Supervisors, Printing Occupations (Other)
- 6721 Printing Trade Occupations (Other)
- 6722 Apprentice Printing Occupations (Other)
- 6729 Other Printing Non-Trade Occupations

6720 SUPERVISORS, PRINTING OCCUPATIONS (OTHER)

This unit group covers occupations concerned with supervising and co-ordinating activities of workers engaged in printing and related occupations not elsewhere classified in this major group.

**Entry Requirements** a trade qualification in an appropriate area or a degree where relevant; at least 5 years' experience; completion of post-trade qualifications in supervision/management is highly desirable.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

6720-A SUPERVISOR, PRINTING  
OCCUPATIONS (OTHER)

Supervises and co-ordinates activities of workers engaged in printing and related occupations not elsewhere classified in this major group.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May be designated according to occupations or work area supervised, e.g.  
Supervisor, Bookbinding Operations  
Supervisor, Reading Room

Job Content Factors	
<i>Workers</i>	
FP: GE10y PSP5-6y(PPC) / (T)	IP: E5y
HC: RAE	RQ: Q1 D1 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: A2 P1 D2 R2 M2 L1	
PA: P1 U2 C2 S2 W2 E2	SA: S1 L2 I2 B1 R2-4
<i>Context</i>	
EC: L1 C08.09	TC: A1 I1 T1
SS: 9	SC: 10 ( 5y)
LMS: 920 (0 %SE)	ASIC: 264

6721 PRINTING TRADE OCCUPATIONS (OTHER)

This unit group covers occupations in binding and finishing, stereotyping and/or electrotyping and screen printing stencil preparation.

**Entry Requirements** qualifications at trade level in binding and finishing, stereotyping and/or electrotyping or screen printing stencil preparation.

**Activities include** some of the following: hand or machine- binding publications; setting and operating power guillotines and other machines; moulding and duplicating printing 'formes'; and cutting and mounting stencils.

**6721-A BOOKBINDER**

Binds, covers and finishes books and other publications by hand or machine.

Undertakes some or all of the following duties. Hand binding: sews folded 'signatures' (single sheets comprising several pages) together by hand or using sewing machine. Compresses sewn signatures, using hand press. Trims page edges using guillotine. Cuts, fits and glues specified covering to book or other publication. Machine binding: studies production or other specifications; sets up and operates some or all of a range of machines designed to fold, gather, stitch, staple, press, cut and trim, glue and cover printed material. Performs routine machine maintenance, adjustments and repairs. Finishing: operates hand tools and machinery designed to rule (by pen or disc), edge-gild, colour, emboss or otherwise finish books and other publications. Repairs books and restores valuable old books.

May be designated according to range of tasks undertaken, e.g.

Bookbinder, Hand	Bookbinder, Machine
Edge Gilder/Finisher	Finisher, Books
Finisher/Bookbinder	

May specialise in gold blocking and hand tooling and be designated accordingly, e.g.

Gold Blocker

**Job Content Factors****Workers**

FP: GE10y PSP4y(T)	IP:
HC: RAC	RQ: Q2 D2 V1 A2

**Materials**

SM: D2 T1	EQ: S1 M1
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**Functions**

MA: P2 D2 R3 M2 L2	
PA: P2 U1 C2 S2 W2 E3	SA: S2 L2 B2 R4

**Context**

EC: L1 C09,08	TC: A1 R2
SS: 7	SC: 8 (vy)

LMS: 400 (10%SE)

ASIC: 264

**6721-B GUILLOTINE OPERATOR, BOOKBINDING**

Sets up and operates power guillotine to cut and trim paper or printed material preparatory to ruling, printing or binding.

Programs electronically operated automatic guillotine, according to production order and other specifications such as type and dimensions of paper to be cut, stacks and aligns material to be cut and activates guillotine. Alternatively, manually sets cutting guides, clamps and knives, aligns edges of paper with guides, pulls lever to activate cutting edge, removes and stacks cut material and clears paper trimmings from machine. Inspects cutting knives and changes as necessary. Performs other routine maintenance and repairs.

**Job Content Factors****Workers**

FP: GE10y PSP4y(T)	IP:
HC: R	RQ: Q2 V2

**Materials**

SM: D2 T1	EQ: S1 M1
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**Functions**

MA: D2 R3 M3 L3	
PA: P2 U1 C1 H1 W1 E3	SA: S2 L2

**Context**

EC: L1 C09	TC: A1 I2 R2
SS: 7	SC: 8 (vy)

LMS: 2500 (0 %SE)

ASIC: 264

**6721-C STEREOTYPER AND/OR ELECTROTYPYER**

Makes duplicates of prepared 'formes' (assemblages) of type

and other material to be used in long-run or multiple printing operations.

Performs one or both of the following functions. Carries out stereotyping functions. Presses pliable mache, rubber or plastic mat against forme, using hydraulic press, to produce mould. Pours molten metal into mould, either by hand or using a casting machine. Trims plate so produced, using hand tools and machines such as shaving machine and levelling machine. Alternatively, prepares stereotype from original engraving/type and/or combination of both. Makes stereometal flong; moulds, packs and casts, removes from flong, trims, cuts, routs excess metal, mounts and planes true. Carries out electrotyping functions. Makes wax or plastic mould of forme, using hydraulic press. Chemically coats mould and suspends it in electrolytic solution to produce shell of copper, nickel or other metal. Strips its shell from mould, backs it with metal or plastic and finishes it, using hand tools and machines, such as routing machine. Repairs or makes alterations to damaged plates. Files and stores matrices. Cares for and corrects alloy composition and plating baths.

May be designated according to process used, e.g.  
Electrotyper                      Stereotyper

**Job Content Factors****Workers**

FP: GE10y PSP4y(T)	IP:
HC: RIC	RQ: Q1 D1 V1

**Materials**

SM: D2 P2 T1	EQ: P2 S1 M1
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**Functions**

MA: A2 P2 D2 R2 M2 L2	
PA: P2 U1 C1 S2 W2 E3	SA: S1 L2 B2 R4

**Context**

EC: L1 C09,08	TC: A1 I2 T2
SS: 7	SC: 7 (vy)

LMS: 300 (0 %SE)

ASIC: 264

**6721-D SCREEN PRINTING STENCIL PREPARER Screen Printer**

Makes stencil, either by hand-cutting or photographing, to be used for printing in a screen printing machine.

Aligns and fixes design on illuminated table, tapes paper or film stencil over design and traces and cuts outline of design onto stencil, using knife. Alternatively, aligns camera over design and operates camera to impose design onto stencil which is coated with a light sensitive gelatin. Makes stencils that are used in, e.g. T-shirts, clothes designs, cloth, paper, tin, metal and shoes. Cares for the camera, lenses and ancillary equipment. Inspects finished screen for quality.

May also mount stencil on screen printing machine and operate machine or activate automatic machine.

**Job Content Factors****Workers**

FP: GE10y PSP4y(T)	IP:
HC: RAC	RQ: Q2 D2 V1

**Materials**

SM: D2 P2 T1	EQ: P2 S1 M1
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**Functions**

MA: A2 P2 D2 R2 M2 L2	
PA: P1 U2 C2 S2 W2 E3	SA: S1 B2 R4

**Context**

EC: L1 C09,08	TC: A1 T2
SS: 7	SC: 7 (vy)

LMS: NA (10%SE)

ASIC: 264

**6721-Z PRINTING TRADE OCCUPATIONS (OTHER) nec**

This residual group covers other printing trade occupations not elsewhere classified, e.g.

Linotype Mechanic

## 6722 APPRENTICE PRINTING OCCUPATIONS (OTHER)

This unit group covers apprentice occupations in binding and finishing, stereotyping and/or electrotyping and screen printing stencil preparation.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years.

**Activities include** performing duties as described under Master Title APPRENTICE.

### 6722-A APPRENTICE BINDER AND FINISHER

Receives instruction and training in the trade of binding and finishing.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP:
HC: RAC	RQ: Q2 D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: D3 R3 M2 L2	
PA: P2 U1 H1 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C09	TC: A1 R2
SS: 1	SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 264

#### Materials

SM: D2 T1 EQ: S1 M1

#### Functions

MA: D3 R3 M2 L2  
PA: P2 U1 H1 W1 E3 SA: S1 L2

#### Context

EC: L1 C09,08 TC: A1 I2  
SS: 1 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 264

### 6722-C APPRENTICE SCREEN PRINTING STENCIL PREPARER

Receives instruction and training in the trade of screen printing stencil preparation.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP:
HC: RAC	RQ: Q2 D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: P2 S1 M1
<i>Functions</i>	
MA: D3 R3 M2 L2	
PA: P1 U2 C2 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C09,08	TC: A1 R2
SS: 1	SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 264

### 6722-B APPRENTICE STEREOTYPER AND/OR ELECTROTYPYER

Receives instruction and training in the trade of stereotyping and/or electrotyping.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y	IP:
HC: RIC	RQ: Q2 D1 V1

## 6729 OTHER PRINTING NON-TRADE OCCUPATIONS

This residual unit group covers non-trade occupations in printing and related activities that are not elsewhere classified.

**Activities include** setting up and operating printing, corrugating and similar machines; and/or undertaking routine maintenance and repair tasks.

### 6729-A PRINTING MACHINE OPERATOR

Sets up and/or operates one or more of a range of printing machines and related equipment which are not elsewhere classified.

Undertakes some or all of the following or similar tasks. Sets functions and controls on machine, such as feeder mechanism, pressure and tension regulators, rollers, drying and cooling apparatus or delivery mechanism. Mixes inks, solvents or other chemicals. Activates machine. Monitors machine's

operation to detect malfunctions such as paper jams, inaccurate printing, binding or otherwise processing of material or ink blockages. Performs routine maintenance and repairs. Completes production records.

May be designated according to machine or equipment operated, e.g.

- Corrugated Machinist
- Label Printer
- Mechanical Binding Equipment Operator
- Screen Printing Machine Operator

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T1-2m
HC: RI	RQ: Q2 D2 V1 A2
<i>Materials</i>	
SM: T1	EQ: S1 M2 W2
<i>Functions</i>	
MA: D3 R4 M2 L2	
PA: P1 U2 C2 W1 E3	SA: S2 L2
<i>Context</i>	
EC: L1 C09,06	TC: A1 I1 T2
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 264

**6729-B            CARTON CUTTING AND CREASING  
FORME SETTER**

Prepares and constructs formes from strip metal and wood for use in paperboard cutting and creasing machines.

Ascertains job requirements from drawings or other specifications. Procures appropriate materials for product and produces sample for customer approval, applying knowledge of paper and/or paperboard to be used; works with such tools as knives, rulers, square edges etc. Takes sample and/or

blueprint and/or customer specifications and marks out plan onto a suitable block of wood for machining. Cuts wooden block into sections of required size and shape or cuts slots in blocks, using woodworking tools such as circular saws, jigsaws, fret-saws and drills. Selects lengths of metal strip and cuts to required size to form creasers or cutting knives. Bends cut strip as required using formers and bending machines. Assembles wooden block sections inserting and/or setting creasers and cutting knives into the cut lines, using rawhide hammer. Places prepared forme in metal frame (chase) and secures in position with wooden wedges.

May affix bolsters. May use laser equipment to prepare the forme. May glue rubber ejector strip to forme. May set forme in machines. May make test impression from finished forme to test accuracy of work.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y	IP: T6-12m E1y
HC: RAC	RQ: Q2 D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 M1
<i>Functions</i>	
MA: D2 R3 M3 L3	
PA: P2 U1 C1 W1 E3	SA: S2 L2 B2 R4
<i>Context</i>	
EC: L1 C09	TC: A1 T2
SS: 4	SC: 6 ( 3y)
LMS: 300 (0 %SE)	ASIC: 264

**6729-Z            PRINTING NON-TRADE OCCUPATIONS  
nec**

This residual group covers occupations concerned with printing and related activities not elsewhere classified in Major Group 67.

## **MAJOR GROUP 68**

### **CONSTRUCTION OCCUPATIONS**

Construction Occupations are classified in the following minor groups.

- 680 Earthmoving, Paving and Railway  
Construction Plant Operating Occupations
- 681 Construction Trade Occupations
- 689 Other Construction Occupations

#### *Related Occupations*

- Major Group 71 : Materials Handling Occupations
- Major Group 53 : Mining Occupations

# 68 CONSTRUCTION OCCUPATIONS

## 680 EARTHMOVING, PAVING AND RAILWAY CONSTRUCTION PLANT OPERATING OCCUPATIONS

### 6800 FOREMEN/WOMEN, EARTHMOVING, PAVING AND RAILWAY CONSTRUCTION PLANT OPERATING OCCUPATIONS

- 6800-A Foreman/woman, Mechanical Earthmoving Plant Operating Occupations
- 6800-B Foreman/woman, Paving and Surfacing Plant Operating Occupations
- 6800-C Foreman/woman, Railway Track Construction Occupations
- 6800-Z Foremen/women, Earthmoving, Paving and Railway Construction Plant Operating Occupations nec

### 6801 MECHANICAL EARTHMOVING PLANT OPERATING OCCUPATIONS

- 6801-A Plant Operator, Earthmoving
- 6801-B Grader Operator
- 6801-C Bulldozer Operator
- 6801-D Scraper Operator (Earth Moving)
- 6801-E Front-End Loader Operator
- 6801-F Back-Hoe Operator
- 6801-G Trench-Digging Machine Operator
- 6801-H Dredge Operator
- 6801-Z Mechanical Earthmoving Plant Operating Occupations nec

### 6802 PAVING AND SURFACING PLANT OPERATING OCCUPATIONS

- 6802-A Paving Machine Operator
- 6802-B Road Roller Operator
- 6802-Z Paving and Surfacing Plant Operating Occupations nec

### 6803 RAILWAY TRACK CONSTRUCTION OCCUPATIONS

- 6803-A Track Repair Machine Operator
- 6803-B Platelayer
- 6803-Z Railway Track Construction Occupations nec

## 689 OTHER CONSTRUCTION OCCUPATIONS

### 6890 SPECIALIST NON-TRADE CONSTRUCTION OCCUPATIONS

- 6890-A Structural Steel Erector
- 6890-B Scaffolder
- 6890-C Concrete Finisher
- 6890-D Steel Fixer
- 6890-E Lagger
- 6890-Z Specialist Non-Trade Construction Occupations nec

### 6891 BUILDERS' LABOURERS

- 6891-A Builders' Labourer

### 6892 BUILDING SERVICE OCCUPATIONS

- 6892-A Fence Erector
- 6892-B Insulation Installer
- 6892-C Installer, Home Improvements

### 6893 MARINE CONSTRUCTION OCCUPATIONS

- 6893-A Loftsmen/woman (Marine)
- 6893-B Boat Builder/Repairer

## 681 CONSTRUCTION TRADE OCCUPATIONS

### 6810 FOREMEN/WOMEN, CONSTRUCTION TRADE OCCUPATIONS

- 6810-A Foreman/woman, Building/Construction Site
- 6810-B Foreman/woman, Bricklayers Occupations
- 6810-C Foreman/woman, Carpenters and Joiners
- 6810-D Foreman/woman, Carpet Layers
- 6810-E Foreman/woman, Painters and Decorators
- 6810-F Foreman/woman, Plasterers
- 6810-G Foreman/woman, Plumbers
- 6810-H Foreman/woman, Roof Slaters and Tilers
- 6810-I Foreman/woman, Wall and Floor Tile Layers
- 6810-Z Foremen/women, Construction Trade Occupations nec

### 6811 BRICKLAYERS

- 6811-A Bricklayer
- 6811-B Refractory Bricklayer

### 6812 CARPENTRY OCCUPATIONS

- 6812-A Carpenter and Joiner
- 6812-B Fixing Carpenter
- 6812-C Roof Carpenter and Framers

### 6813 CARPET LAYERS

- 6813-A Carpet Layer

### 6814 PAINTING, DECORATING AND SIGNWRITING OCCUPATIONS

- 6814-A Painter and Decorator
- 6814-B Paperhanger
- 6814-C Painter, Industrial
- 6814-D Signwriter

### 6815 PLASTERERS

- 6815-A Plasterer, Solid
- 6815-B Plasterer, Fibrous

### 6816 PLUMBING OCCUPATIONS

- 6816-A Plumber
- 6816-B Gasfitter
- 6816-C Drainer
- 6816-D Pipe Fitter (Plumbing)

### 6817 TILERS

- 6817-A Roof Slater and Tiler
- 6817-B Tile Layer, Wall and Floor

### 6818 CONSTRUCTION TRADE APPRENTICE OCCUPATIONS

- 6818-A Apprentice Bricklayer
- 6818-B Apprentice Carpenter and Joiner
- 6818-C Apprentice Carpet Layer
- 6818-D Apprentice Painter and Decorator
- 6818-E Apprentice Plasterer
- 6818-F Apprentice Plumber
- 6818-G Apprentice Roof Slater and Tiler
- 6818-H Apprentice Signwriter
- 6818-I Apprentice Wall and Floor Tile Layer
- 6818-Z Construction Trade Apprentice Occupations nec

MINOR GROUP 680

EARTHMOVING, PAVING AND RAILWAY CONSTRUCTION PLANT  
OPERATING OCCUPATIONS

Earthmoving, Paving and Railway Construction Plant Operating Occupations are classified in the following unit groups.

- 6800Foremen/women, Earthmoving, Paving and Railway  
Construction Plant Operating Occupations
- 6801Mechanical Earthmoving Plant Operating Occupations
- 6802Paving and Surfacing Plant Operating Occupations
- 6803Railway Track Construction Occupations

Related Occupations

Unit Group 5323: Excavating and Hauling Occupations, Open Cut Mining

6800 FOREMEN/WOMEN, EARTHMOVING, PAVING AND RAILWAY CONSTRUCTION  
PLANT OPERATING OCCUPATIONS

This unit group covers supervisory occupations concerned with earthmoving, paving and railway construction projects.

**Entry Requirements** appropriate State licence(s) to operate certain types of mechanical plant, plus 5-7 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN in relation to earthmoving, paving and railway construction operations.

6800-A FOREMAN/WOMAN, MECHANICAL  
EARTHMOVING PLANT OPERATING  
OCCUPATIONS

Supervises and co-ordinates activities of mechanical earthmoving plant operators and related workers engaged in excavating earth materials, clearing and levelling sites, grading earth surfaces and digging irrigation ditches and channels.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: E5-7y
HC: R	RQ: S1 Q2
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 V2
<i>Functions</i>	
MA: P2 D2 R2 M3 L2	
PA: U2 C2 S2 W1 E3	SA: SV LV B1 R3-4
<i>Context</i>	
EC: M1 L2 C03,06,04	TC: A1 I2
SS: 8	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: 41,42

6800-B FOREMAN/WOMAN, PAVING AND  
SURFACING PLANT OPERATING  
OCCUPATIONS

Supervises and co-ordinates activities of paving and surfacing plant operators and related workers engaged in compacting and smoothing layers of material and spreading and levelling bituminous paving material for roads, runways, parking areas and other construction projects.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: E5-7y
HC: R	RQ: S1 Q2
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 V2
<i>Functions</i>	
MA: P2 D2 R2 M3 L2	
PA: U2 C2 S2 W1 E3	SA: SV LV B1 R3-4
<i>Context</i>	
EC: M1 L2 C03,06,04	TC: A1
SS: 7	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: 41,42

### 6800-C FOREMAN/WOMAN, RAILWAY TRACK CONSTRUCTION OCCUPATIONS

Supervises and co-ordinates activities of railway track construction plant operators and related workers engaged in laying, aligning, examining and repairing tracks and roadbeds of railways, station yards and subways, and street, mine and industrial railways.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### Job Content Factors

##### Workers

FP: GE NFR

HC: R

IP: E5-7y

RQ: S1 Q2

##### Materials

SM: D2 P1 T2

EQ: S2 M2 V2 W2

#### Functions

MA: P2 D2 R2 M3 L2

PA: U2 C2 H2 S2 W1 E3

SA: SV LV B1 R3-4

#### Context

EC: M1 L2 C03,06,04

SS: 7

TC: A1

SC: 9 (vy)

LMS: NA (0 %SE)

ASIC: 41,42

### 6800-Z FOREMEN/WOMEN, EARTHMOVING, PAVING AND RAILWAY CONSTRUCTION PLANT OPERATING OCCUPATIONS nec

This residual group covers supervisory occupations concerned with earthmoving, paving and railway construction projects not elsewhere classified in Unit Group 6800.

## 6801 MECHANICAL EARTHMOVING PLANT OPERATING OCCUPATIONS

This unit group covers occupations concerned with operating mechanical earthmoving plant on construction projects.

**Entry Requirements** 3 years' experience in some cases. Persons entering occupations in this group may be required to meet State age requirements in order to obtain appropriate State licences to operate certain types of mechanical earthmoving plant.

**Activities include** operating mechanical plant such as graders, bulldozers, scrapers, draglines, front-end loaders, back-hoes, trench digging machines and dredges; loading, unloading and driving plant at worksite; moving levers and pedals to control plant and attachments; working from profiles and blueprints to determine work specifications; selecting, installing and changing plant attachments; starting up and adjusting compressor units; connecting pumps and hoses, and adjusting valves and throttles; repositioning stationary plant; and maintaining and examining plant and attachments.

#### Related Occupation

Occupation 5323-A : Dragline Operator, Open Cut Mining

### 6801-A PLANT OPERATOR, EARTHMOVING Heavy-Duty Equipment Operator

Operates various construction plant and attachments to excavate, clear, move, load, or grade earth and similar materials.

Loads, unloads and drives pneumatic tyre or crawler tread types of plant at worksite. Moves levers and pedals to control equipment and attachments. Works from profile drawings and reads grade pegs when operating heavy equipment to complete grading, earth moving and land clearing tasks. Operates construction plant with attachments to excavate, lift and load materials, and drive piles. Selects and changes excavator attachments such as face shovels, draglines, back-hoes, drag shovels, and clam shells. Starts up and adjusts compressor power unit to maintain continuous air supply to pneumatic tools and equipment. Connects pump and hoses and adjusts valves and throttle to change pumping pressure as conditions require. Services plant by cleaning, lubricating and refuelling equipment; adjusting clutches, brakes, belts and cables; and replacing cutting edges, teeth, shear pins, blades, cables and bolts.

#### Job Content Factors

##### Workers

FP: GE NFR

HC: R

IP: E3y

RQ: S1

#### Materials

SM: D2 T1

EQ: S2 V1

#### Functions

MA: D2 R3 M3 L2

PA: U2 C1 H1 S1 E4

SA: SV LV

#### Context

EC: M1 L2 C03,06,04

SS: 8

TC: A1 I2

SC: 8 (0y)

LMS: 1000-4000(5 %SE)

ASIC: 41,42

### 6801-B GRADER OPERATOR Grader Driver

Operates motorised machine to level and spread earth, gravel, stone and other materials to grade specifications in construction and road maintenance projects.

Drives grader and manipulates levers to regulate height and angle of grader blade. Makes successive passes over working area and observes surveyor's pegs or hand signals of other worker to level surface to specified grade. Judges depth of blade cut by feel of lever, sound of engine and sight. Excavates ditches by tipping blade on angle and driving grader parallel to ditch. Breaks up old pavement or road beds with scarifier attachment (blade with teeth). Lubricates equipment and makes minor repairs.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T18-24m
HC: R	RQ: S1
<i>Materials</i>	
SM: T1	EQ: S2 V1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: U2 C1 S1 E4	SA: SV LV
<i>Context</i>	
EC: M1 L2 C03,06,04	TC: A1
SS: 8	SC: 8 ( 0y)
LMS: 3000-4000(5 %SE)	ASIC: 41,42

**6801-C BULLDOZER OPERATOR**  
**Dozer Driver**

Operates crawler tread tractor equipped with concave blade and other attachments to gouge out, level or move materials such as earth, rock, trees and ore in construction, forestry, mining and other projects.

Connects hydraulic hoses, belts, mechanical linkage or power take-off shafts to bulldozer to provide power to raise, lower or tilt attachments. Moves levers and pushes pedals to manoeuvre plant and raise, lower or tilt blade or attachment to cut, remove and push objects or materials. Estimates depth of cut by feel of lever and stalling action of engine. Drives bulldozer in successive passes to raise or lower terrain according to grade specifications. Installs and operates special attachments such as winch, tree faller or loading scoop. Greases, oils and makes minor adjustments and repairs to equipment.

May specialise in skidding and loading logs, clearing debris from forest areas and constructing log landings.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T12-18m
HC: R	RQ: S1
<i>Materials</i>	
SM: T1	EQ: S2 V1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: U2 C1 H1 S1 E4	SA: SV LV
<i>Context</i>	
EC: M1 L2 C03,06,04	TC: A1
SS: 8	SC: 8 ( 0y)
LMS: 5000-6000(20%SE)	ASIC: 41,42

**6801-D SCRAPER OPERATOR**  
**(EARTHMOVING)**  
**Elevating Scraper Operator; Pay-Scraper Operator**

Operates motorised machine to scrape, level and haul earth on construction sites such as road beds, reservoirs and airport runways.

Moves switches, steering wheel, levers and pedals to control speed and direction of scraper. Regulates levers to lower scraper blade to desired depth of cut. Drives machine forward to scrape surface and collect earth in bucket. Operates controls to raise and close filled bucket and drives scraper to area where earth is to be dumped or spread. Drives scraper in successive passes until desired level is reached according to verbal instructions and surveyor's pegs. Services and makes minor repairs to equipment.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T6-12m
HC: R	RQ: S1
<i>Materials</i>	
SM: T1	EQ: S2 V1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: U2 C1 S1 E4	SA: SV LV

*Context*

EC: M1 L2 C03,06,04	TC: A1
SS: 7	SC: 7 ( 0y)
LMS: 2500-3500(20%SE)	ASIC: 41,42

**6801-E FRONT-END LOADER OPERATOR**  
**Loader Operator**

Operates motorised pneumatic tyre or crawler-tread loader to move or load earth, rock, sand, gravel or other material.

Drives machine at work site. Moves levers and pedals to manoeuvre machine, lower and force bucket into material, and to lift and tip contents into truck, railroad car or onto conveyor or stock pile. Hoists and moves heavy objects such as pipe sections or timber, using wire cable attached to bucket. Observes surveyor's pegs while excavating or backfilling materials in order to maintain specified grade. Services machine and performs routine maintenance, using grease gun and wrenches.

May drive machine to and from work site. May operate particular type of front-end loader and be designated accordingly, e.g. Bobcat Operator

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T3-6m
HC: R	RQ: S1
<i>Materials</i>	
SM: T1	EQ: S2 V1
<i>Functions</i>	
MA: P2 D2 R3 M3 L3	
PA: U2 C1 S1 E4	SA: SV LV
<i>Context</i>	
EC: M1 L2 C03,06,04	TC: A1
SS: 7	SC: 7 ( 0y)
LMS: 1000-4000(5 %SE)	ASIC: 41,42

**6801-F BACK-HOE OPERATOR**

Operates pneumatic tyre or crawler tread back-hoe, fitted with various interchangeable attachments to excavate, load, compact, vibrate, break rock or concrete, drill, level and spread earth, rock and other materials.

Drives plant at work site. Examines blueprints or obtains instructions from supervisor to determine location and nature of work. Raises and lowers outriggers and blade or bucket to stabilise machine when operating back-hoe, compactor or drill attachments. Operates controls, and pushes and pulls floor-mounted levers to activate attachments. Back-fills excavations with rock and earth using front-end loader bucket to push, scoop-up and dump material. Operates controls to activate pneumatic drill to break up pavement, rock and similar material. Changes attachments as required using hand tools. Services and makes minor adjustments to equipment using hand tools and lubricants.

May drive machine to and from work site.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T3-6m
HC: R	RQ: S1
<i>Materials</i>	
SM: D2 T1	EQ: S2 V1
<i>Functions</i>	
MA: P2 D2 R3 M3 L3	
PA: U2 C1 H1 S1 E4	SA: SV LV
<i>Context</i>	
EC: M1 L2 C03,06,04	TC: A1
SS: 7	SC: 7 ( 0y)
LMS: 1000-4000(20%SE)	ASIC: 41,42

**6801-G TRENCH-DIGGING MACHINE OPERATOR**

Operates machine consisting of an endless chain or wheel of buckets mounted on tractor chassis, to dig trenches for sewer.

water, drainage, oil and gas pipelines and electric power cables.

Moves levers and depresses pedals to move and turn tractor, raise and lower bucket chain or wheel, and start and stop conveyor belt which discharges material at side of trench. Guides machine along surveyed trench line. Excavates trench to conform to grade specifications. Oils, greases, and makes adjustments and minor repairs to machine.

#### Job Content Factors

##### Workers

FP: GE NFR

IP: T1-3m

HC: R

RQ: S1

##### Materials

SM: T1

EQ: S2 V1

##### Functions

MA: D2 R3 M3 L3

PA: U2 C1 S1 E4

SA: SV LV

##### Context

EC: M1 L2 C03,06,04

SS: 7

TC: A1

SC: 7 ( 0y)

LMS: 1000-4000(5 %SE)

ASIC: 41,42

### 6801-H DREDGE OPERATOR

Operates various types of dredges to deepen waterways, reclaim earth fill or mine metal-bearing sands and gravel.

Works from blueprints, maps and verbal instructions and studies current, tide, and ship traffic. Starts motor and positions dredge by moving levers and pedals that operate winch to adjust anchor cables and to raise and lower spud (anchor) poles. Moves levers and pedals to control dredging

equipment such as dipper, clamshell, endless-bucket chain or suction pipe to excavate and deposit materials in barge, scow, pipeline or on shore. Lowers anchor pole to verify depth of excavation, using winch. Changes position of dredge, as required, to complete excavation.

May specialise in operating dredge for sand mining purposes or in reclamation or other construction work, or in alluvial tin mining, or in port and river development and be designated accordingly, e.g.

Cutter-Suction Dredge Operator; Floating Pump Operator  
Endless-Bucket Dredge Operator  
Clamshell Dredge Operator

#### Job Content Factors

##### Workers

FP: GE NFR

IP: T1-3y

HC: R

RQ: S1

##### Materials

SM: T1

EQ: S2 V1

##### Functions

MA: P2 D2 R3 M3 L3

PA: P2 U1 C2 S2 W2 E3

SA: S1

##### Context

EC: M1 L4 C09,08

SS: 7

TC: A1 I1

SC: 7 ( 0y)

LMS: 1000-4000(5 %SE)

ASIC: 41,42

### 6801-Z MECHANICAL EARTHMOVING PLANT OPERATING OCCUPATIONS nec

This residual group covers mechanical earthmoving plant operating occupations not elsewhere classified in Unit Group 6801.

## 6802 PAVING AND SURFACING PLANT OPERATING OCCUPATIONS

This unit group covers occupations concerned with operating paving and surfacing plant on construction projects.

**Entry Requirements** no formal requirements, but persons entering occupations in this group must meet State age requirements in order to obtain appropriate State licences to operate certain types of paving and surfacing plant.

**Activities include** operating paving and surfacing plant such as asphalt paving machines and road rollers; driving plant along specified route; observing and controlling distribution of surfacing material; regulating speed and direction of plant; lubricating plant and making minor repairs; and cleaning plant using scraper, brush and solvents.

### 6802-A PAVING MACHINE OPERATOR Asphalt Paving Machine Operator; Bitumen Paving Machine Operator

Operates machine to spread and level hot bituminous paving material on surfaces such as highways, streets and parking areas.

Adjusts screed to desired paving width, using wrenches. Lights burners to heat screed and hopper. Signals truck driver to back vehicle into dumping position at machine hopper. Starts engine and operates machine controls to advance spreader and push dump truck, maintaining a constant dumping position. Drives machine along specified path. Observes distribution of paving material and adjusts screed angle to eliminate voids at curbs and joints. Turns valves to regulate temperature of material flowing from hopper. Turns handwheel to raise or lower screed to maintain specified

thickness of paving. Cleans machine using scraper, brush and solvents. Rides platform at rear of paver, when working in a two-person crew, to observe and control distribution of paving material.

#### Job Content Factors

##### Workers

FP: GE NFR

IP: T3-6m

HC: R

RQ: S1

##### Materials

SM: T1

EQ: S2 V1

##### Functions

MA: D3 R3 M3 L3

PA: U2 C1 S1 W2 E4

SA: SV LV

<i>Context</i>			
EC: M1 L2 C03,06,04	TC: A1		
SS: 7	SC: 7 ( 0y)		
LMS: 2000-3000(20%SE)	ASIC: 41,42		

**6802-B ROAD ROLLER OPERATOR**  
**Compactor Operator; Roller Driver**

Operates metal or pneumatic tyre power-driven roller to compact and smooth layers of material such as rock, gravel, earth, mixed fill and asphalt to prepare surfaces for roads, runways, parking areas and other construction projects.

Fills water tanks if rollers are to be moistened or fills rollers to add weight to machine. Moves levers, pedals, handwheels and throttle to control and guide machine. Drives machine in successive overlapping passes to compact surface. Releases water as required over roller to prevent asphalt from sticking to roller and to produce smooth asphalt consistency. Regulates speed and direction of machine to prevent formation of ridges through excessive pressure, utilising knowledge of compressibility of material under changing temperature. Lubricates machine and makes minor repairs.

May operate roller equipped with special attachments used to roughen or tear up surfaces. May operate roller with tamping action to achieve high level of compaction.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T1-3m
HC: R	RQ: S1
<i>Materials</i>	
SM: T1	EQ: S2 V1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: U2 C1 S1 E4	SA: SV LV
<i>Context</i>	
EC: M1 L2 C03,06,04	TC: A1
SS: 7	SC: 7 ( 0y)
LMS: 4000-5500(5 %SE)	ASIC: 41,42

**6802-Z PAVING AND SURFACING PLANT**  
**OPERATING OCCUPATIONS nec**

This residual group covers paving and surfacing plant operators not elsewhere classified in Unit Group 6802, e.g. Road Linemarker

**6803 RAILWAY TRACK CONSTRUCTION OCCUPATIONS**

This unit group covers railway track construction plant operating and related occupations concerned with railway track construction and maintenance projects.

**Entry Requirements** no formal requirements although persons entering occupations in this unit group must, in some cases, meet minimum age requirements.

**Activities include** operating and controlling motorised and other railway track construction plant; adjusting control panel settings; transporting tools and equipment along railways; sawing and grinding railway tracks; bolting track sections together; curving rails with bending machines; cleaning and lubricating switches; and performing minor repairs to equipment.

**6803-A TRACK REPAIR MACHINE OPERATOR**

Operates and controls motorised and other machinery which cleans, spreads, levels and tamps ballast; cuts, removes, lifts and places ties; and raises, levels and aligns tracks.

Moves levers and pedals to control movement of ballast-regulating machines on tracks and to raise, lower, adjust and manipulate reversible scarifying wings, grading blades and rotating brushes. Drives machine in successive passes along rails before and after track has been levelled to shape and spread ballast around ties. Sweeps ballast from top of ties using lever to control rotating brushes. Moves levers and presses buttons to position ballast tamping machine over tie and activate vibrating hydraulic tamper heads to compact ballast around tie, or sets controls so that machine automatically tamps ballast. Adjusts control panel settings, and operates levers and pedals to move track-aligning machines and align tracks. Strings wire guidelines through levelling or aligning fixtures, or follows other grade and alignment guides such as coded light system, electronic indicators on control board, or manual or automatic graphliner recorder system. Moves hand and foot controls of tie-bed scarifier machine to loosen compacted ballast in railway track roadbed prior to laying new ties. Operates levers and pedals of tie-crane to rotate deck, booms and grapple head to pick up, position and drop railway ties onto track. Lowers cutting blade of tie-cutting machine and makes cuts in tie using hand and foot controls. Operates controls to pick up and discard centre section of tie and to push butt ends of tie

out from under rails. Pulls levers of tie-injector machine to open and close tongs around ties, and to move tie into injector head. Positions boom and tie, and thrusts tie under rails using levers. Moves levers of spike-driving machine to drive spike automatically through hole in tie plate and into tie. Moves levers of spike-pulling machine to lower spike-pulling assemblies to straddle rails and to raise assemblies from rails after pulling spikes. Moves controls to operate hydraulic turntable to change direction and to set machine off track onto side rails. Services machine according to standard maintenance procedure and performs minor repairs.

May be designated according to the class of machinery operated, e.g.

Track Repair Machine Operator Class 1

Job Content Factors			
Workers			
FP: GE NFR		IP: T6-12m	
HC: R		RQ: S1	
Materials			
SM: T1		EQ: S2 V1	
Functions			
MA: D3 R3 M3 L3			
PA: U2 C1 S1 E4		SA: SV LV	

<i>Context</i>	
EC: M1 L2 C03.06.04	TC: A1
SS: 6	SC: 6 ( 0y)
LMS: 500-1000 (5 %SE)	ASIC: 41,42

**6803-B PLATELAYER**  
**Fettler; Repairer, Railway**

Lays and repairs track used in rail and tramway service, or in transfer yards, quarries and mines, working as member of crew.

Transports tools and equipment on push or handcar. Carries and places ties at specified intervals across roadbed and positions rails on ties, using gauge. Operates tie-adzing machine to cut beds for tie plates. Operates single or multiple head spike-driving machine or drives spike with sledge to fasten rails to ties. Saws rails to required length, drills bolt holes at end of rails, and grinds worn or rough rail ends, using portable power tools. Bolts sections of rails or switch components together, using long handled spanner or pneumatic impact wrench. Lifts tie and track and tamps ballast under tie to raise track to specified level and prove firm foundation for tie, using hydraulic or ratchet-type jack, shovel and tamping iron or portable tamping machine. Curves rails with rail bender according to track specifications. Removes and replaces worn or damaged rails, ties and switches, using spike puller, pick, shovel, sledgehammer and wrenches. Cleans and lubricates switches.

May assist in righting derailed stock by positioning re-railers, jacks and cables. May examine track, lubricate wheel bearings on rolling stock and maintain switch signal lamps. May

co-ordinate activities of other workers or specialise in a particular type of duty related to the laying and repairing of track, and be designated accordingly, e.g.

- |  |                           |
|--|---------------------------|
| Ganger, Railway/Tramway                | Chargeman/woman, Railway  |
| Grinder, Railway                       | Lengthsman/woman, Railway |
| Line Repairer, Railway                 | Patrolman/woman, Railway  |
| Points Cleaner, Railway                | Railway Track Packer      |
| Rail Adjuster                          | Section Worker, Railway   |
| Sleeper Layer                          |                           |
| Maintenance Man/Woman, Railway/Tramway |                           |
| Tram Lineman/woman, Sugar Mill         |                           |

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T1-3m
HC: R	RQ:
<i>Materials</i>	
SM: T1	EQ: S1 M1 W1
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: U2 H1 W1 E4	SA: SV LV
<i>Context</i>	
EC: M1 L2 C03.06.04	TC: A1
SS: 6	SC: 6 ( 0y)

**6803-Z RAILWAY TRACK CONSTRUCTION**  
**OCCUPATIONS nec**

This residual group covers railway track construction occupations not elsewhere classified in Unit Group 6803.

MINOR GROUP 681

CONSTRUCTION TRADE OCCUPATIONS

Construction Trade Occupations are classified in the following unit groups.

- 6810 Foremen/women, Construction Trade Occupations
- 6811 Bricklayers
- 6812 Carpentry Occupations
- 6813 Carpet Layers
- 6814 Painting, Decorating and Signwriting Occupations
- 6815 Plasterers
- 6816 Plumbing Occupations
- 6817 Tilers
- 6818 Construction Trade Apprentice Occupations

Related Occupations

Unit Group 2051 : Building Occupations (Professional)

6810 FOREMEN/WOMEN, CONSTRUCTION TRADE OCCUPATIONS

This unit group covers supervisory occupations concerned with construction, maintenance and renovating projects.

**Entry Requirements** a trade qualification in an appropriate trade plus 4-7 years' post-trade experience and, in some cases, a post-trade building qualification; or 7-10 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN in relation to construction and related activities.

Related Occupation

Occupation 2053-C : Clerk of Works

6810-A FOREMAN/WOMAN,  
BUILDING/CONSTRUCTION SITE  
General Foreman/woman, Construction; Site  
Supervisor, Construction

Supervises and co-ordinates activities of tradespersons and others concerned with the construction and maintenance of structures such as buildings, bridges, dams and pipelines.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May specialise in domestic, commercial or industrial construction projects and be designated accordingly, e.g.  
Supervisor, Cottage Construction

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4-5y(T) / (PPC)	IP: E4-7y
or FP: GE10y	IP: E7-10y
HC: R	RQ: Q2
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 N2

<i>Functions</i>	
MA: P2 D2 R2 M2 L2	
PA: U1 S2 W1 B1 E2	SA: SV LV I2 B1 R2-3
<i>Context</i>	
EC: M2 L2 C12,06	TC: A1
SS: 9	SC: 9 ( 0y)
LMS: 1000-2000(0 %SE)	ASIC: 41,42

6810-B FOREMAN/WOMAN, BRICKLAYERS  
OCCUPATIONS

Supervises and co-ordinates activities of bricklayers and others engaged in preparing and laying brick and related materials.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: E4-7y
or FP: GE10y	IP: E7-10y
HC: R	RQ: Q2

<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 N2
<i>Functions</i>	
MA: P2 D2 R2 M2 L2	
PA: U1 S2 W1 B1 E2	SA: SV LV B1 R2-3
<i>Context</i>	
EC: M2 L2 C12,06	TC: A1
SS: 8	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: 41,42

### 6810-C FOREMAN/WOMAN, CARPENTERS AND JOINERS

Supervises and co-ordinates activities of carpenters and joiners and others concerned with the construction and maintenance of structures such as buildings, bridges, dams, pipelines and ships, and with installing fixtures.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4-5y(T)/ (PPC)	IP: E4-7y
or FP: GE10y	IP: E7-10y
HC: R	RQ: Q2
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 N2 M2
<i>Functions</i>	
MA: P2 D2 R2 M2 L2	
PA: P2 U1 S2 W1 B1 E2	SA: SV LV B1 R2-3
<i>Context</i>	
EC: M2 L2 C12,06	TC: A1
SS: 8	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: 41,42

### 6810-D FOREMAN/WOMAN, CARPET LAYERS

Supervises and co-ordinates activities of carpet layers and others engaged in installing and repairing floor coverings such as carpet, carpet tile, linoleum and vinyl.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: E4-7y
or FP: GE10y	IP: E7-10y
HC: R	RQ: Q2
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2
<i>Functions</i>	
MA: P2 D2 R2 M3 L2	
PA: P2 U1 S2 W1 E2	SA: SV LV B1 R2-3
<i>Context</i>	
EC: M2 L1	TC: A1
SS: 8	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: 41,42

### 6810-E FOREMAN/WOMAN, PAINTERS AND DECORATORS

Supervises and co-ordinates activities of painters and decorators and others applying paint and related materials to the exterior and interior of buildings and other structures, and applying wallpaper and fabrics to walls and ceilings.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May co-ordinate activities of signwriters and be designated accordingly,  
Foreman/woman, Signwriters

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: E4-7y
or FP: GE10y	IP: E7-10y
HC: R	RQ: Q2

<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 N2
<i>Functions</i>	
MA: P2 D2 R2 M3 L2	
PA: P2 U1 S2 W1 B2 E3	SA: SV LV B1 R2-3
<i>Context</i>	
EC: M2 L1 C12	TC: A1
SS: 8	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: 41,42

### 6810-F FOREMAN/WOMAN, PLASTERERS

Supervises and co-ordinates activities of plasterers and others engaged in fixing fibrous sheets and applying solid plaster to walls and ceilings.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May specialise in supervising fibrous or solid plasterers and be designated accordingly,  
Foreman/woman, Fibrous Plasterers  
Foreman/woman, Solid Plasterers

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: E4-7y
or FP: GE10y	IP: E7-10y
HC: R	RQ: Q2
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 N2
<i>Functions</i>	
MA: P2 D2 R2 M3 L2	
PA: U1 S2 W1 E3	SA: SV LV B1 R2-3
<i>Context</i>	
EC: M2 L1 C12	TC: A1
SS: 8	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: 41,42

### 6810-G FOREMAN/WOMAN, PLUMBERS

Supervises and co-ordinates activities of plumbers and other workers engaged in installing and repairing pipelines, and plumbing and related equipment for water, gas, sewerage and other systems.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise personnel working in a particular aspect of plumbing and be designated accordingly, e.g.  
Foreman/woman, Drainers  
Foreman/woman, Gas Fitters

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: E4-7y
or FP: GE10y	IP: E7-10y
HC: R	RQ: Q2
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S2 N2 M2
<i>Functions</i>	
MA: P2 D2 R2 M3 L2	
PA: P2 U1 S2 W1 B2 E2	SA: SV LV B1 R2-3
<i>Context</i>	
EC: M2 L3 C06	TC: A1
SS: 8	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: 41,42

### 6810-H FOREMAN/WOMAN, ROOF SLATERS AND TILERS

Supervises and co-ordinates activities of roof slaters and tilers and others engaged in covering structures with roof tiles, sheets or shingles to form a waterproof surface.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP: E4-7y
or FP: GE10y	IP: E7-10y
HC: R	RQ: Q2
<b>Materials</b>	
SM: D2 P1 T2	EQ: S2 N2
<b>Functions</b>	
MA: P2 D2 R2 M3 L2	
PA: U1 S2 W1 B1 E2	SA: SV LV B1 R2-3
<b>Context</b>	
EC: M2 L2 C12	TC: A1
SS: 8	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: 41,42

**6810-I FOREMAN/WOMAN, WALL AND FLOOR TILE LAYERS**

Supervises and co-ordinates activities of floor and wall tile layers and others engaged in preparing and laying ceramic, slate and related tiles.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP: E4-7y
or FP: GE10y	IP: E7-10y
HC: R	RQ: Q2
<b>Materials</b>	
SM: D2 P1 T2	EQ: S2 N2
<b>Functions</b>	
MA: P2 D2 R2 M3 L2	
PA: U1 S2 W1 E2	SA: SV LV B1 R2-3
<b>Context</b>	
EC: M2 L1	TC: A1
SS: 8	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: 41,42

**6810-Z FOREMEN/WOMEN, CONSTRUCTION TRADE OCCUPATIONS nec**

This residual group covers supervisors/foremen/women of construction trades and related occupations not elsewhere classified in Unit Group 6810.

**6811 BRICKLAYERS**

This unit group covers occupations concerned with preparing and laying bricks on construction, maintenance and renovation projects.

**Entry Requirements** 4-7 years' experience, or a trade qualification in bricklaying.

**Activities include** examining plans and specifications; directing activities of apprentices, assistants and other workers; setting out work; mixing and spreading mortar; cutting bricks to size; setting bricks in place; checking alignment of work; pointing mortar joints; and removing and repairing damaged brickwork.

**6811-A BRICKLAYER  
Blocklayer**

Lays brick, precut stone, concrete cinder or other types of building block in mortar to construct and repair both veneer and solid walls, foundations, partitions, arches, culverts and other structures.

Examines plans and specifications to obtain details of construction, such as dimensions, materials, location of door and window openings, columns and piers. Erects, or directs workers to erect scaffolds, set out materials and mix mortar. Seals foundation with damp resistant material such as lead or alcure. Strings taut line between storey poles or built-up corners to act as horizontal guide. Spreads layer of mortar to serve as base and binder for blocks, using trowel. Lays dampened bricks in horizontal rows or designs and shapes, spreading mortar between joints. Laps block with trowel to embed it firmly in mortar. Removes excess mortar from face of block using trowel. Checks vertical and horizontal alignment with level, plumb line or square at regular intervals. Anchors brick veneer walls to face of structure, using metal ties. Finishes mortar between joints using pointing tool or trowel. Shapes brick to fit irregular spaces using edge of trowel, masonry hammer, chisel or power saw. Constructs arches or ornamental brickwork such as decorative pillars, fireplaces and chimneys using bricklaying procedures. Repairs and maintains brick, cement block and related structures by repointing walls and replacing cracked or damaged sections.

May lay materials such as terra cotta, glass, plaster, plastic and synthetic or reconstituted material blocks or bricks, paving bricks and bricks, blocks or tiles, in sand. May work on a contract basis, or specialise in laying brick to build particular types of structures or in a particular aspect of bricklaying and be designated accordingly, e.g.

Arch Builder  
Steeplejack  
Tuckpointer  
Bricklaying Contractor; Bricklaying Sub-contractor;  
Cement Blocklaying Contractor; Contract Bricklayer;  
Contractor, Bricklayer; Contractor, Concrete Blocklaying

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE10y	IP: E4-7y
HC: R	RQ:
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N2
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: U1 H2 W1 B1 E4	SA: SV LV I2 B2 R4
<b>Context</b>	
EC: M2 L2 C06,12	TC: A1
SS: 8	SC: 8 (0y)
LMS: 19000 (20%SE)	ASIC: 41,42

**6811-B REFRACTORY BRICKLAYER**

Lays firebrick, plastic brick, coke brick and refractory tile to build, rebuild, line, reline and repair steam boilers, industrial

ovens, furnaces, kilns, converters, ladles, smelters, cupolas and related equipment.

Examines blueprints and specifications to determine layout and brick requirements. Lays out work using chalk lines, plumb bob, tapes, square and level. Mixes fireproof mortar and assembles required tools and materials. Shapes brick, when necessary, using hammer, power saw, hand saw or trowel. Bends and positions metal frame to form basis for archwork in such places as ovens, kilns, boilers or furnaces. Spreads fireclay mortar over brick with trowel and lays in place. Checks each new row using plumb line and spirit level to ensure it is correctly aligned vertically and horizontally. Spreads high heat plastic refractory mixes over exposed brickwork to provide protection against deterioration. Cuts or drills openings in brick or plastic for heating elements and pyrometer. Removes burned or damaged brick and cleans exposed surface using sledgehammer, pneumatic hammer, pry bar, chisel, scraper and wire brush. Replaces with firebrick and tile, or plastic slabs by hammering castable material over prepared area, using hammer and air gun. Packs and tamps insulation such as asbestos wool fibre or ribbon at specified

points. Repairs or replaces equipment such as clay troughs, spouts, tap holes, flues, bolts, brackets and flexible bus bars, using hand tools and oxy-acetylene torch.

May specialise in laying refractory tiles or bricks to build particular types of structures, and be designated accordingly, e.g.

Chimney Builder  
Retort Setter

Furnace Bricklayer

#### *Job Content Factors*

##### *Workers*

FP: GE10y PSP4y(T)

IP:

or FP: GE10y

IP: E4-7y

HC: R

RQ:

##### *Materials*

SM: D2 P2 T1

EQ: S1 N2

##### *Functions*

MA: D2 R3 M3 L2

PA: U1 H2 W1 B1 E4

SA: SV LV B2 R4

##### *Context*

EC: M2 L2 C06,12

TC: A1

SS: 8

SC: 8 ( 0y)

LMS: 300 (20%SE)

ASIC: 41.42

## 6812 CARPENTRY OCCUPATIONS

This unit group covers occupations concerned with manufacturing, assembling, constructing, erecting, installing, renovating, repairing and maintaining structures and fixtures made of wood and other materials.

**Entry Requirements** 4-7 years' experience or, in most cases, a trade qualification in carpentry and joinery.

**Activities include** examining plans and specifications; directing activities of apprentices, assistants and other workers; setting out work; sawing, grooving, planing or sanding materials by hand or power tools; cutting material to size and shape; installing fixtures and erecting structures; and renovating, repairing and maintaining existing structures.

#### *Related Occupations*

Major Group 62

: Woodworking Occupations

Unit Group 6211

: Cabinet-Makers, Joiners and Related Occupations

### 6812-A

### CARPENTER AND JOINER

#### Carpenter; Joiner

Constructs, erects, installs, renovates and repairs structures and fixtures of wood, plywood, wallboard and other materials.

Reads blueprints, drawings or sketches to determine materials required, dimensional qualifications and installation procedures. Selects specified type of timber or other materials. Prepares layouts using carpenter's square, rule, callipers and chalk line; and marks cutting and assembly lines on materials using pencil, chalk and marking gauge. Cuts and shapes materials with hand and power tools such as saws, planes and sanders. Assembles cut and shaped parts using nails, screws, bolts, dowel pins, rivets, clamps and adhesives. Erects framework and lays subflooring for new structures and additions or extensions to old structures. Verifies trueness of structures using plumb line, level and laser beam. Removes parts of existing structures such as walls, ceilings, cabinets, washroom fixtures, floors and roofs, using pinch bar and hand tools. Builds, alters and installs stairs, stair railings, platforms, partitions which may include glass panels, room dividers, cabinets, counters, shelves and built-in units using

woodworking machines and hand and power tools. Lays and replaces hardwood, parquet and wood strip block floors, using nails, adhesives and sanders. Fits and installs prefabricated kitchen and bathroom units, trusses, window frames, doors, door frames, interior and exterior finish trim. Sizes and fits exterior cladding, such as bevelled siding and brick veneer, using adhesives, drills, hammers and nails. Builds and erects wooden or prefabricated metal formwork used to mould concrete footings, floors and structures on construction projects, and strips formwork after setting. Installs batterboards, building outlines and building supports on existing structures. Supervises and directs work of apprentices, trades assistants and labourers.

May erect scaffolding and steel studding. May install suspended ceilings and insulating materials to walls and ceilings. May arrange for subcontractors to install or repair electrical wiring, air conditioning, plumbing, roofing, tiling, glazing or brickwork in connection with construction or renovation projects. May work with materials such as metal including aluminium and steel, plastic, concrete and asbestos. May work on a contract basis or specialise in a particular aspect of carpentry, and be designated accordingly, e.g.

Carpenter Diver  
Cottage Carpenter  
Maintenance Carpenter  
Carpentry and Joinery Contractor; Carpentry Contractor;  
Carpentry Subcontractor; Contract Carpenter  
Contractor, Carpenter and Joiner  
Bridge and Wharf Carpenter; Civil Construction Carpenter  
Formwork Carpenter; Form Setter (Carpentry);  
Formworker (Carpentry)

May possess additional qualifications, be engaged in the restoration, renovation, preservation or reconstruction of historical buildings and be designated accordingly,  
Special Class Carpenter and Joiner

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE10y HC: R	IP: IP: E4-7y RQ:
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 M1
<b>Functions</b>	
MA: D2 R3 M3 L2 PA: P2 U1 H2 W1 B1 E4	SA: SV LV I2 P2 B2 R4
<b>Context</b>	
EC: M2 L2 C06,12 SS: 8	TC: A1 SC: 8 ( 0y)
LMS: 43000 (20%SE)	ASIC: 41,42

**6812-B      FIXING CARPENTER**  
**Finishing Carpenter; Fixer, Carpentry; Shop Fitter**

Builds and installs finishing items in buildings, such as doors, window frames, sashes, skirting boards, stairs, prefabricated cabinets, and similar items.

Studies plans and specifications to determine details of work to be performed. Examines building interior to ensure that dry wall and framing work is complete and does minor preparatory work such as renailling subfloor and adjusting window operations. Measures, cuts and nails underlay plywood over subfloor, using hand and power tools. Installs door frames using tools and materials such as level, square, fasteners and shims, ensuring that frames are perfectly square. Cuts, fits and installs closet shelves. Fits and hangs all interior doors such as folding, revolving, swinging, sliding, bi-fold and standard doors. Installs prefabricated kitchen cupboards, cabinets, bathroom vanities and counter tops. Cuts out sink openings using power saw. Measures, cuts and installs baseboard, using tools such as mitre box, measuring tape and saw. Installs hardware such as door handles and knobs, locks, closet rods and door stops, using drill and screwdriver. Cuts, fits and secures treads and risers in stair stringers. Cuts and nails frames around windows and doors and where specified in building plans. Manufactures, installs, alters and repairs items such as book cases, fireplace mantels, dividers, planters, window and door glass panels, wall panelling, stairposts, railings, hand rails and other interior trim as required, in addition to shopfronts, showcase partitions, and exhibitors' stands.

May assemble, install and fix home improvement products such as aluminium windows, doors, flyscreens, shower screens, mirror robes, metal garage doors, steel stair cases and handrails. May specialise in a particular aspect of fixing carpentry and be designated accordingly, e.g.

Exhibition/Display Stand Carpenter  
Stair Case Carpenter

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE10y HC: R	IP: IP: E4-7y RQ:

Carpenter and Joiner, Ship  
Floor Sander

**Materials**

SM: D2 P2 T1	EQ: S1 N2 M1
<b>Functions</b>	
MA: D2 R3 M3 L2 PA: P2 U1 H2 W1 B1 E4	SA: SV LV I2 B2 R4
<b>Context</b>	
EC: M2 L3 C06,12 SS: 8	TC: A1 SC: 8 ( 0y)
LMS: 8000 (20%SE)	ASIC: 41,42

**6812-C      ROOF CARPENTER AND FRAMER**  
**Framer, Walls and Roof; Framing Carpenter; Roofing Carpenter**

Lays out, fabricates and erects building framework such as roofing, subflooring, exterior walls and interior partitions.

Studies building plans and specifications to determine construction features, layout and erection procedures. Checks foundation for alignment, squareness, dimensions and elevation to ensure placement of sills in accordance with specifications, using tools such as surveyor's level, tape measure, square, plumb bob and spirit level. Measures, cuts, drills, levels and secures foundation plates (sills) to anchor bolts to provide true and firm base from which structure can be erected. Measures, cuts and fits beams, support columns, floor joists, bridging and subflooring using carpentry tools. Lays out, cuts and erects studding for exterior and interior walls, including door and window framing, or positions and secures prefabricated panels to subflooring, using a variety of hand and power tools. Nails prefabricated roof trusses in place, or lays out, cuts and assembles ceiling joists and rafters to construct roof framing. Sheathes roof and exterior walls with materials such as plywood, fibreboard or other related manufacturers' materials to enclose structure, using hammer and nails or power fastener. Measures, cuts and nails fascia and soffit panels in position, working from ladders or scaffolding, or nails panels to prefabricated exterior walls prior to erection. Installs prefabricated metal or wooden windows and exterior door frames with pre-hung doors, using level, shims, hammer and nails. Fabricates interior fixtures such as drop ceilings, valances and stair stringers. Constructs building attachments such as formwork for exterior concrete stairs, porches, carports, sun decks and dormers. Erects and disassembles metal or wooden scaffolds used to provide access to work locations inaccessible from ground level.

May install exterior trim such as mouldings, shutters and steel studding for interior non-bearing walls. May erect steel and aluminium framed cottages, carports, portable schoolrooms, site accommodation, and aluminium weatherboards on cottages. May install flat metal roofs on carports. May lay down steel as a decking for concrete. May work on a contract basis, or specialise in a particular aspect of roof and frame carpentry and be designated accordingly, e.g.

Floorlayer, Timber

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE10y HC: R	IP: IP: E4-7y RQ:
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N2 M1
<b>Functions</b>	
MA: D2 R3 M3 L2 PA: P2 U1 H2 W1 B1 E4	SA: SV LV B2 R4
<b>Context</b>	
EC: M2 L2 C06,12 SS: 8	TC: A1 SC: 8 ( 0y)
LMS: 3000-5000(20%SE)	ASIC: 41,42

6813 CARPET LAYERS

This unit group covers occupations concerned with measuring, cutting and installing floor coverings.

**Entry Requirements** 3-7 years' experience or a trade qualification in floor covering or related areas.

**Activities include** examining area to be covered; directing activities of apprentices, assistants and other workers; measuring and cutting floor covering to size; securing floor covering to floor; and removing and replacing damaged floor coverings.

6813-A CARPET LAYER  
Floor Coverer; Floor Finisher (Carpet); Floor Layer (Carpet)

Measures, cuts, installs and repairs floor coverings such as carpet, carpet tile, linoleum or vinyl, and parquetry floors.

Examines area to be covered to ensure that floor is firm, dry and clean. Measures and marks off area to determine layout. Places underlay on floor, and lays out carpeting to cover area with minimum wastage of material. Cuts material to fit around permanent obstructions, and trims edges of carpet, using carpet cutters. Fastens carpet sections together at seams, using hand or machine stitcher, seaming iron or bonding tape. Shifts and stretches carpet to required position, using knee kicker or power stretcher implements. Secures carpet using tackless strip along border, or carpet tacks. Pushes roller along joins to obscure seam marks. Inserts and secures matching piece of material in damaged areas to repair carpet using hand tools. Removes and replaces baseboard moulding trim to install carpet edge under trim. Installs resilient flooring as required.

May work on a contract basis, or specialise in laying a particular type of material on floors, and be designated accordingly, e.g.  
Carpet Laying Contractor; Carpet Laying Subcontractor; Contract Carpet Layer; Contractor, Carpet Laying Linoleum Layer

Job Content Factors	
Workers	
FP: GE10y PSP3-4y(T)	IP:
or FP: GE10y	IP: E3-7y
HC: R	RQ:
Materials	
SM: D2 P2 T1	EQ: S1
Functions	
MA: D2 R3 M3 L2	
PA: P2 U1 H2 W1 E3	SA: SV LV I2 B2 R4
Context	
EC: M2 L1	TC: A1
SS: 8	SC: 8 ( 0y)
LMS: 2500-3000(20%SE)	ASIC: 41,42

6814 PAINTING, DECORATING AND SIGNWRITING OCCUPATIONS

This unit group covers occupations concerned with applying paint, wallpaper, fabric and related materials to interior and exterior surfaces of buildings and other structures.

**Entry Requirements** 4-7 years' experience or, in most cases, a trade qualification in painting, decorating and/or signwriting.

**Activities include** applying coats of paint and other materials to surfaces of buildings and other structures; covering interior walls and ceilings with paper and other materials; and designing, drawing, fabricating and painting illuminated and non-illuminated signs for displays, buildings and other structures.

6814-A PAINTER AND DECORATOR  
House Decorator; House Painter; Painter, Construction

Applies coats of paint, varnish, stain, enamel, lacquer, wallpaper, fabric and other finishes to protect, preserve, maintain and decorate interior and exterior surfaces of domestic, commercial, and industrial buildings and structures including ships, machinery, and fences and posts.

Determines quantity of materials required by measuring surface or reviewing job specifications on work order. Erects scaffolding, cradles, ladders and other equipment to form work platform as required. Places dropsheets and applies masking tape to protect areas from paint spattering or sets up

pasteboard for paperhanging. Removes old paint or paper using heat, flame, liquid solvent, hand and power tools, grit, shot and other abrasives. Draws up woodwork if loose, using hammer. Fills and seals nail holes, cracks and joins with caulking mixtures, compounds, putty, plaster, tape or other filler using spreading knife or special applicators. Washes or brushes structures and equipment as required. Selects premixed paints or prepares paint to match specified colours by mixing required portions of pigment, oil and thinning and drying additives. Brushes, rolls or sprays paint, varnish, stain or other finishes on surfaces. Measures, cuts and trims material such as paper, vinyl and drapery fabrics to required lengths. Brushes paste on back of wall covering or moistens glued surfaces using water trough or wet sponge. Aligns strips

of wall covering and smooths joints using dry brush or roller. Washes brushes, rollers and spray equipment with soap and water or solvent, and cleans work area.

May work on a contract basis, or specialise in a particular technique of painting and/or decorating, and be designated accordingly, e.g.

House Painting and Decorating Contractor; Painting Contractor; Painting Subcontractor; Subcontract Painter Spray Painter, Construction

May perform duties of a specialist and more advanced nature such as wallpapering, marbling and graining and be designated accordingly,

Interior Decorator

**Job Content Factors**

**Workers**

FP: GE10y PSP4y(T) IP:  
or FP: GE10y IP: E4-7y  
HC: R RQ:

**Materials**

SM: D2 P2 T1 EQ: S1

**Functions**

MA: D2 R3 M3 L2  
PA: P2 U1 H2 W1 B1 E3 SA: SV LV I2 P2 B2 R4

**Context**

EC: M2 L1 C12 TC: A1  
SS: 8 SC: 8 (0y)

LMS: 23000 (20%SE)

ASIC: 41,42

**6814-B PAPERHANGER  
Wallpaper Hanger**

Covers interior walls and ceilings with materials such as paper, vinyl, carpeting and drapery fabrics for protective and decorative purposes.

Estimates quantity of wallpaper or fabric required to cover surface. Erects scaffolding and sets up pasteboard. Removes old paper or other finish with scraper, water and chemicals. Cleans surface, fills cracks and holes with plaster, putty or other fillers, and smooths rough spots with sandpaper. Sprays or brushes acetic acid on damp plaster to neutralise lime effect. Brushes sizing on porous surfaces to seal and waterproof surface. Measures surface to be covered and cuts wallpaper or fabric in required lengths, ensuring that design matches. Trims rough edge from strips, using straight-edge and trimming knife. Mixes paste to desired consistency and applies it to back of wallpaper or fabric, using wide brush. Moistens glued surface, using water trough or wet sponge. Marks vertical guideline on wall to align first strip, using plumb bob and chalk line. Places paste-coated strips on wall or ceiling, and matches adjacent edges of designs on strips. Smooths covering with dry brush or felt-covered roller to remove wrinkles or bubbles. Smooths joints with roller, and trims ends of fabric overlapping ceiling and baseboard lines, doors and windows.

**Job Content Factors**

**Workers**

FP: GE10y PSP4y(T) IP:  
or FP: GE10y IP: E4-7y  
HC: R RQ:

**Materials**

SM: D2 P2 T1 EQ: S1 N2

**Functions**

MA: D2 R3 M3 L2  
PA: U1 H2 W1 B1 E2 SA: S1 I1 P2 B2 R4

**Context**

EC: M2 L1 C12 TC: A1  
SS: 8 SC: 8 (0y)

LMS: 2000-3000(20%SE)

ASIC: 41,42

**6814-C PAINTER, INDUSTRIAL**

Applies paint, varnish, enamel and similar protective materials to exteriors and interiors of industrial plant and other

structures such as factories, ships, petrochemical refineries, structural steel framework and buildings, storage tanks, highway guard rails and machinery, pipelines and related equipment and structures, and fences and posts.

Erects scaffolding, cradles, ladders and other equipment to form work platform. Prepares surface by removing old paint, using wire brush and sandpaper, grit, shot and other abrasives. Selects premixed paints or prepares paint to match specified colours by mixing required portions of pigment, oil and thinning and drying additives. Brushes, rolls or sprays surfaces such as walls, ceilings and girders to cover with paint. Washes brushes, rollers and spray equipment with soap and water, turpentine, varsol and other solvents.

May specialise in painting particular types of structure or in applying a particular type of protective material to surfaces, and be designated accordingly, e.g.

Bridge Painter Ship's Painter  
Corrosion Control Coating Specialist

**Job Content Factors**

**Workers**

FP: GE10y PSP4y(T) IP:  
or FP: GE10y IP: E4-7y  
HC: R RQ:

**Materials**

SM: D2 P2 T1 EQ: S1

**Functions**

MA: D2 R3 M3 L2  
PA: P2 U1 H2 W1 B1 E3 SA: SV LV B2 R4

**Context**

EC: M2 L4 C12 TC: A1  
SS: 8 SC: 8 (0y)

LMS: 2000-3000(20%SE)

ASIC: 41,42

**6814-D SIGNWRITER  
Signcraftsman/woman**

Designs, draws, fabricates and paints illuminated and non-illuminated signs for displays, buildings and other structures.

Studies proposals, sketches or written instructions and confers with client to determine style and composition of sign. Selects appropriate sign materials such as plastic, fibreglass, foam, polymer, wood, cork, metal, gold and silver leaf, silk, calico, poster colours, lacquers, varnishes, plastic and oil paints, and enamels. Prepares paint by mixing, tinting and thinning. Prepares brick, metal, glass, timber, fabric and other surfaces for signwriting. Marks out lettering using templates and sketches freehand outlines onto surface. Masks sign background. Paints sign using roller, spray gun or brush and maulstick (hand resting stick). Fabricates and erects three-dimensional signs using adhesives, power and hand tools, and equipment, such as saws, drills, hammers, screwdrivers, screws, bolts and nails. Cleans and maintains brushes and equipment.

May specialise in certain design and material areas, such as silk screen printing, neon and plastic signs, gold leaf lettering, and custom vehicle signs.

**Job Content Factors**

**Workers**

FP: GE10y PSP4y(T) IP:  
or FP: GE10y IP: E4-7y  
HC: AIR RQ: Q1 V1

**Materials**

SM: D2 I2 T1 EQ: S1

**Functions**

MA: P2 D3 R3 M3 L2  
PA: P1 C2 W1 B2 E2 SA: S1 P2 B2 R4

**Context**

EC: M1 L2 C12 TC: A1  
SS: 6 SC: 8 (vy)

LMS: 2700-3200(10%SE)

ASIC: 3484

6815 PLASTERERS

This unit group covers occupations concerned with fixing fibrous sheets and plasterboard, applying solid plaster to walls and ceilings, and laying floors of cement and similar materials.

**Entry Requirements** 4-7 years' experience or a trade qualification in plastering.

**Activities include** examining plans and specifications; directing activities of apprentices, assistants and other workers; applying plaster to surfaces; smoothing or creating decorative finish on final coat; cutting fibreboard to size and shape; lifting, positioning and securing panels; fixing pre-cast mouldings; and filling and smoothing joins and holes.

6815-A PLASTERER, SOLID  
Cement Plasterer; Cement Renderer;  
Renderer

Applies decorative and protective covering of plaster, cement or similar materials to interior and exterior of structures.

Directs and assists workers to mix plaster and cement to desired consistency, and to erect scaffolds and trestles. Applies various coats of plaster to structure according to type of material forming surface, using trowel. Levels and smooths first coat with float to attain uniform thickness, and repeats same process for successive coats. Roughens undercoat with wire or metal scraper to provide bond for second coat. Shapes plaster border along sides to serve as guide for thickness of plaster coats. Plumbs and straightens corners, angles, and wall and ceiling surface using plumb line, straight-edge and spirit level. Applies finishing coat by spreading thin, uniform coat of white finishing plaster over previous coat. Smooths surface with trowel, brush and water, and finishes corners and angles with angle float. Sprays or trowels and brushes on water periodically as finish coat is curing. Creates decorative textures in finish coat by marking it with brush, sponge or trowel, spraying stipple coat, or spattering small stones or glitter material onto surface. Applies and finishes acoustic, insulating or fireproofing materials bonded with plaster, plastic cementitious and similar materials.

May spray or apply protective glaze to covered surface. May fix pre-cast cornices, panel mouldings, ceiling centres and other plaster fittings. May apply waterproofing coats to structures using cement, bitumen, plaster or patent material. May lay floors of granolithic, terrazzo, cement or similar composition. May finish concrete floors. May work on a contract basis or specialise in a particular aspect of plastering, and be designated accordingly, e.g.

Solid Plastering Contractor; Contract Solid Plasterer;  
Contractor, Solid Plastering; Plastering Subcontractor  
Granolithic Worker  
Terrazzo Worker; Terrazzo Floor Layer

Related Occupation

Occupation 6890-C : Concrete Finisher

Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE10y HC: R	IP: IP: E4-7y RQ:
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N2
<b>Functions</b>	
MA: D2 R3 M3 L2 PA: U1 H2 W1 B1 E4	SA: SV LV I2 B2 R4

Context

EC: M2 L4 C12 SS: 8	TC: A1 SC: 8 ( 0y)
LMS: 2000-3500(20%SE)	ASIC: 41,42

6815-B PLASTERER, FIBROUS  
Fibrous Plaster Fixer; Gypsum Plasterboard  
Fixer; Plasterboard Fixer; Setter, Fibrous  
Plaster

Applies and fixes suspended ceilings, gypsum plasterboard partitions, fire rating systems, acoustic tiles, and plaster based composite wall linings to domestic and commercial buildings.

Studies building plan to determine fibreboard layout. Installs insulation and vapour barriers as required. Measures and marks reference points on fibreboards to prepare for installation on wall or ceiling. Cuts fibreboard to shape and size using cutting knife and saw. Lifts and positions panels in place. Secures fibreboard to wall and ceiling direct or to wooden and metal battens using glue, screws and nails. Measures, marks and cuts metal corner beads used to protect exterior corners, and secures in position, using hammer and nails. Fixes pre-cast cornices, panel mouldings, ceiling and centres and other plaster fittings using adhesive, plaster, nails and screws. Covers joins and nail holes with wet plaster or sealing compound using trowel. Smooths using wet brush and sanding paper after drying. Works as member of a team when installing large panels or erecting ceilings.

May spray fibrous materials over surface to be covered. May work on a contract basis, or specialise in a particular aspect of fibrous plastering, and be designated accordingly, e.g.

Fibrous Plastering Contractor; Fibrous Plastering  
Subcontractor; Contract Fibrous Plasterer; Contractor,  
Fibrous Plastering  
Ceiling Fixer, Plastering

Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T) or FP: GE10y HC: R	IP: IP: E4-7y RQ:
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N2
<b>Functions</b>	
MA: D2 R3 M3 L2 PA: U1 H2 W1 B1 E4	SA: SV LV I2 B2 R4
<b>Context</b>	
EC: M2 L1 C12 SS: 8	TC: A1 SC: 8 ( 0y)
LMS: 5800-6500(20%SE)	ASIC: 41,42

## 6816 PLUMBING OCCUPATIONS

This unit group covers occupations concerned with installing and repairing pipelines, plumbing and related equipment for water, gas, sewerage and other systems.

**Entry Requirements** 4-7 years' experience or, in most cases, a trade qualification in plumbing or related subjects. Some occupations in this group also require an appropriate licence.

**Activities include** examining plans and specifications; directing activities of apprentices, assistants and other workers; designing plumbing systems; setting out work; measuring, cutting, threading and bending pipe; assembling and joining piping to fixtures; cementing, soldering and welding pipe sections together; caulking joints; testing installations; and laying clay or plastic piping.

### 6816-A

#### PLUMBER

**Plumber and Drainer; Plumber and Gasfitter;  
Plumber, Drainer and Gasfitter**

Lays out, fabricates, installs, tests and maintains pipes, fixtures, fittings, gas lines, meters and regulators on residential, commercial and industrial projects.

Examines drawings and specifications to determine necessary materials and layout of plumbing system including gas connections, water supply network, hot water facilities, sewerage, drainage, ducting and plumbing fixtures. Locates and marks position for connections, passage holes and fixtures in walls and floors, using ruler, spirit level and plumb bob. Cuts holes through walls and floors to accommodate pipes, using hand and power tools. Measures pipe with tape or rule and marks cutting or bending lines on pipe. Cuts and threads pipe, using pipe cutters, hack saws, flaring tools, and pipe-threading tools or machine. Bends pipe when required using pipe-bending tools. Assembles and installs piping, valves and fittings made of such metals as iron, steel, lead or copper, and non-metallic materials such as glass or vitrified clay. Joins pipe sections using fittings, couplings, elbows, solder, screws, bolts and clamps. Secures pipes in position using brackets and hangers. Tests lines as required by local plumbing code using smoke test, compressed air, water or electronic sensing equipment. Installs domestic plumbing fixtures such as toilets, gas stoves, wash basins, baths, downpipes and guttering; commercial plumbing such as air conditioning and sprinkler systems; and industrial processing units in refineries and manufacturing plants. Connects components including gas and water supply, control valves, fixtures and drainage, to form complete plumbing system. Maintains and repairs installed plumbing systems by tracing and rectifying defects, replacing broken pipes and fixtures, soldering and caulking leaks, and clearing choked waste pipes and traps.

May install and fix steel, aluminium and plastic roofs. May install shower screens and prefabricated whole shower recesses. May work on a contract basis or specialise in a particular aspect of plumbing, and be designated accordingly, e.g.

Maintenance Plumber      Plumber Welder  
Plumbing Contractor; Contractor, Plumbing; Contract  
Plumber; Contract Plumber, Drainer and Gasfitter;  
Plumbing Subcontractor  
Roofing Plumber; Roof Plumber

May specialise in installing, servicing and repairing plumbing components of water heating and ducted air heating/cooling systems and be designated accordingly,

Plumber, Mechanical Services

#### Job Content Factors

##### Workers

FP: GE10y PSP14y(T)

or FP: GE10y

HC: R

IP:

IP: E4-7y

RQ: S1

##### Materials

SM: D2 P2 T1

EQ: S1 N2 M2

##### Functions

MA: D2 R3 M3 L2

PA: P2 U1 H2 W1 B2 E3

SA: SV LV I1 P2 B2 R4

##### Context

EC: M2 L3 C06,02

SS: 9

TC: A1

SC: 9 ( 0y)

LMS: 19000 (20%SE)

ASIC: 41,42

### 6816-B

#### GASFITTER

**Gas-main and Line Fitter**

Installs, maintains, tests and repairs gas lines, meters, regulators, units and appliances in residential, commercial and industrial establishments.

Examines drawings and specifications to determine layout of installations and materials required. Measures and marks reference points for location of equipment. Installs gas meters and regulators by securing to walls and ceilings, and cuts openings in structures to accommodate pipes and fittings, using hand tools. Measures, cuts, threads, bends and installs gas supply and feeder pipelines between gas unit and meter. Installs vents and flues. Connects components such as burners, valves, automatic controls and gas supply to complete installation. Tests and adjusts control mechanisms such as thermostats, high-temperature limit controls and safety pilots. Turns on gas and inspects and tests pipelines and equipment. Locates leaks and faulty connections and determines pressure and flow of gas, using manometer, voltmeter, combustible gas indicator, soap lather and grease. Replaces faulty forced air heating motors, gas meters, and meters requiring periodic servicing, using hand tools. Attends to leaks by examining and repairing supply lines, meters, appliances and controls, using gas detecting devices and hand tools. Advises customer of built-in safety features and standards, and answers questions relating to operation and maintenance of gas units and systems. Inspects utility and consumer owned equipment to ensure compliance with all relevant codes and safety requirements.

May work with particular type of gas and be designated accordingly, e.g.

Liquid Petroleum Gasfitter

May specialise in a particular area of gasfitting and be designated accordingly, e.g.

Gasfitter, Commercial

Gasfitter, Industrial

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE10y	IP: E4-7y
HC: R	RQ: S1
<b>Materials</b>	
SM: D2 P2 T1	EQ: P2 S1 M2
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: P2 U1 H2 W1 B2 E3	SA: SV LV I1 B2 R4
<b>Context</b>	
EC: M2 L3 C06	TC: A1
SS: 9	SC: 9 ( 0y)
LMS: 1000-1500(20%SE)	ASIC: 41,42

**6816-C DRAINER**

Installs, maintains and repairs pipes made of clay, concrete, galvanised iron and similar materials to form storm or sanitation systems, sub-soil water drains, surface water drains or other pipe lines and installs septic tanks and holding wells, sillage pits and transpiration beds.

Examines plans, drawings and contour of land to determine where piping should be laid to ensure proper drainage. Hammers pegs into ground and strings cord between pegs to mark off areas of trenches. Digs, or directs and assist workers to dig, trenches along marked out areas to specified depth, using pick and shovel, backhoe or jack hammers and compressors. Makes excavations through concrete floors, brick walls, footing etc. prior to laying of drain pipes. Measures and cuts pipe to required length, using pipe cutter, power saw and chisel. Guides pipe section into position as it is lowered into trench by hand, or by using back-hoe, rope, winch or crane. Adjusts pipe to line and grade using plumb bob and pole, dumpy levels etc. and secures pipe in position, using blocks, aggregate or sand bags. Inserts clamps and holds end of abutting pipe sections together for welding. Fits cast iron reflux calves and constructs pits and access facilities. Forces oakum into bell joints, or fills joints of concrete and clay pipes with cement mortar and rubber rings to form seal. Repairs breaks in sub-soil drainage or sewer lines by replacing damaged pipe sections and sealing joints. Opens clogged sewer lines, using rooting machine that forces reaming tool through clogged pipe. Directs workers and assists in the excavation for tanks, sillage pits and transpiration beds, the placement and sealing of tanks and, in some cases, the attachment of a concrete mass to the base of tanks. Covers rubble or aggregate filled trenches with plastic or hessian covers. Ensures compliance with all relevant codes and by-laws etc. when carrying out testing and other duties.

May work on a contract basis, or specialise in cleaning drains or installing septic tanks, and be designated accordingly,  
 Drain Cleaner                      Septic Tank Installer  
 Contractor, Drainage; Drainage Contractor

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE10y	IP: E4-7y
HC: R	RQ: S1
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N2 M2
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: P2 U1 C2 H2 W1 E4	SA: SV LV I1 B2 R4
<b>Context</b>	
EC: M2 L2 C06	TC: A1
SS: 8	SC: 8 ( 0y)
LMS: 1000-2000(20%SE)	ASIC: 41,42

**6816-D PIPE FITTER (PLUMBING)  
Pipe Joiner; Pipe Layer**

Lays out, fabricates, installs and maintains high and low pressure systems of piping and fittings for conducting steam, water, oil and other liquids and gases used in heating, cooling, lubricating and other industrial processing systems.

Studies building plans and specifications to determine materials and layout of system. Selects type and size of pipe and related materials required. Plans sequence of work to co-ordinate pipefitting installation with other construction work. Cuts openings in structures to accommodate pipes and pipe fittings. Measures, cuts, threads and bends pipe to required size and shape using hand tools and machines, including pipe cutters, pipe threading and bending machines, and flamecutters. Assembles and installs a variety of metal and non-metal piping, such as those made of copper, lead and plastic. Welds, threads, cements or solders pipe sections together. Secures pipes in position using clamps, brackets and hangers. Connects pipes to equipment and appliances such as refrigeration, air conditioning, and industrial processing units. Tests pipe system for leaks using compressed air, water, chemicals or gas. Maintains and repairs pipe system by cleaning and replacing pipes, units and fittings.

May work on a contract basis and be designated accordingly,  
 Contractor, Pipe Laying; Pipe Laying Contractor

**Job Content Factors**

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE10y	IP: E4-7y
HC: R	RQ:
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 M2
<b>Functions</b>	
MA: P2 D2 R3 M3 L2	
PA: P2 U1 H2 W1 E3	SA: SV LV B2 R4
<b>Context</b>	
EC: M2 L1 C06,02	TC: A1
SS: 8	SC: 8 ( 0y)
LMS: 500-1000 (20%SE)	ASIC: 41,42

**6817 TILERS**

This unit group covers occupations concerned with covering structures with tiles to provide a protective and/or decorative finish.

**Entry Requirements** 3-7 years' experience or a trade qualification in tiling or related subjects.

**Activities include** examining plans and specifications; directing activities of apprentices, assistants and other workers; and preparing and covering structures with roof, wall or floor tiles.

### 6817-A ROOF SLATER AND TILER Roofer; Roof Tiler; Slater, Roof

Prepares and covers structures with roof tiles, sheets or shingles to form a waterproof surface.

Examines drawings, specifications and work site to determine materials required. Directs and assists workers to erect ladders or scaffolds and carry materials such as roof sheets, tiles or shingles of wood, terra cotta, glazed and semi-glazed clay, slate, asbestos, cement, fibrous malthoid, or bituminous roofing supplies to roof. Places and secures waterproof sheets over eaves. Nails or staples sarking (roofing underlay) such as roofing paper, felt or other insulating materials to roof. Aligns starter row of roofing material with edge of roof, and secures with wire, staples or nails. Overlaps successive layers, gauging distance with chalk line, straight-edge, shingling hatchet or lines on roofing material. Sizes and cuts roofing material to fit around vents, chimney's edges, corners and ridges using tools such as cutters, saws and knives. Cuts, fits and secures metal flashing into angles formed by walls, chimney's vents and intersecting roof surfaces. Slips roofing materials under prefabricated flashing and nails down. Fixes edge and ridge tiles in mortar or cement. Cleans up debris when surface is covered.

May caulk exposed nail heads and flashing to prevent leaks, using sealant or caulking gun. May lay aluminium or steel tiles. May work on a contract basis, or specialise in a particular aspect of roof slating and tiling, and be designated accordingly, e.g.

Roof Fixer                                      Roof Ridger  
Roof Shingler  
Roof Tiling Contractor; Roof Tiling Subcontractor;  
Contract Roof Tiler; Contractor, Roof Tiling

#### Job Content Factors

<b>Workers</b>	
FP: GE10y PSP3-4y(T)	IP:
or FP: GE10y	IP: E3-7y
HC: R	RQ:
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N2
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: U1 H2 W1 B1 E4	SA: SV LV B2 R4
<b>Context</b>	
EC: M2 L2 C12	TC: A1
SS: 8	SC: 8 ( 0y)
LMS: 3000-3500(20%SE)	ASIC: 41,42

### 6817-B TILE LAYER, WALL AND FLOOR Floor and Wall Tiler; Tile Fixer (Wall and Floor); Tile Setter; Wall and Floor Tiler

Lays ceramic, clay, slate, marble and glass or other tiles on walls and floors to provide a protective and decorative finish.

Examines plans, measures and marks surface to be covered and lays out work. Directs workers to assemble materials and mix required compound. Prepares wall or floor surface by removing old tile with chisel, scraping away old grout and adhesive and cleaning surface with soap and water. Spreads adhesive such as cement, mastic or ceramic glue on cement base, or on gypsum board, plywood or masonry surface. Cuts tile to fit around fixtures, openings and corners using tile cutter. Applies adhesive to tiles using trowel. Sets tile in position and taps it with trowel handle to affix tile firmly to adhesive base. Checks surface covered to ensure that tiles are properly aligned, using level, square, plumb line and straight-edge. Applies grout (finishing cement) to joints after tiles have set, using trowel. Wipes tiles clean and removes excess grout using rubber-faced float. Lays mosaic tiles on paper or fabric mesh as required to form decorative pictures or patterns. Sets tiles in patterns on backing sheets, forming prefabricated tile sections to fill orders for customers or facilitate rapid installation at worksite.

May work on a contract basis, or specialise in a particular type or aspect of tile laying, and be designated accordingly, e.g.

Cork Tile Floor Layer                      Floor Tiler  
Linoleum Tile Floor Layer              Mosaic Tiler  
Rubber Tile Floor Layer                  Wall Tiler  
Ceramic Tile Layer; Ceramic Tiler  
Wall and Floor Tile Laying Contractor; Wall and Floor  
Tile Laying Subcontractor; Contract Wall and Floor Tiler;  
Contractor, Wall and Floor Tiling

#### Job Content Factors

<b>Workers</b>	
FP: GE10y PSP4y(T)	IP:
or FP: GE10y	IP: E4-7y
HC: R	RQ:
<b>Materials</b>	
SM: D2 P2 T1	EQ: S1 N2
<b>Functions</b>	
MA: D2 R3 M3 L2	
PA: U1 H2 W1 E3	SA: SV LV I2 B2 R4
<b>Context</b>	
EC: M2 L1	TC: A1
SS: 8	SC: 8 ( 0y)
LMS: 3000-3500(20%SE)	ASIC: 41,42

## 6818 CONSTRUCTION TRADE APPRENTICE OCCUPATIONS

This unit group covers apprentice occupations in bricklaying, carpentry, carpet laying, painting and decorating, plastering, plumbing, roof tiling, signwriting, and wall and floor tiling.

**Entry Requirements** persons entering occupations in this group must meet relevant State, Territory or Commonwealth education, aptitude and age requirements. The common educational requirement is satisfactory completion of Year 10, and the normal minimum age requirement is 15 years (16 years for apprentice roof tilers).

**Activities include** performing duties as described under Master Title APPRENTICE.

### 6818-A APPRENTICE BRICKLAYER

Receives instruction and training in the trade of bricklaying.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May receive instruction and training in a specialised area of bricklaying and be designated accordingly, e.g.  
Apprentice Tuckpointer

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
HC: R	RQ:
<b>Materials</b>	
SM: D2 T1	EQ: S1 N2
<b>Functions</b>	
MA: R4 M3 L3	
PA: U1 W1 B1 E4	SA: SV LV
<b>Context</b>	
EC: M2 L2 C06,12	TC: A1
SS: 1	SC: 2 ( 3y)
LMS: 3000-4000(0 %SE)	ASIC: 41,42

### 6818-B APPRENTICE CARPENTER AND JOINER

Apprentice Carpenter

Receives instruction and training in the trade of carpentry and joinery.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May receive instruction and training in a particular area of carpentry and be designated accordingly, e.g.  
Apprentice Bridge and Wharf Carpenter

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
HC: R	RQ:
<b>Materials</b>	
SM: D2 T1	EQ: S1 M1
<b>Functions</b>	
MA: R4 M3 L3	
PA: U1 H1 W1 B1 E4	SA: SV LV
<b>Context</b>	
EC: M2 L2 C06,12	TC: A1
SS: 1	SC: 2 ( 3y)
LMS: 15000 (0 %SE)	ASIC: 41,42

### 6818-C APPRENTICE CARPET LAYER

Receives instruction and training in the trade of carpet laying.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May receive instruction and training in a particular area of carpet laying and be designated accordingly, e.g.  
Apprentice Carpet and Lino Layer  
Apprentice Carpet Cutter, Planner and Layer  
Apprentice Carpet Planner

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
or FP: GE10y	IP:
HC: R	RQ:
<b>Materials</b>	
SM: D2 T1	EQ: S1
<b>Functions</b>	
MA: R4 M3 L3	
PA: U1 H1 W1 E3	SA: SV LV
<b>Context</b>	
EC: M2 L1	TC: A1
SS: 1	SC: 2 ( 3y)
LMS: 200-400 (0 %SE)	ASIC: 41,42

### 6818-D APPRENTICE PAINTER AND DECORATOR

Receives instruction and training in the trade of painting and

decorating.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May receive instruction and training in a particular area of painting and decorating and be designated accordingly, e.g.  
Apprentice Painter and Signwriter  
Apprentice Painter  
Apprentice Paperhanger

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
HC: RA	RQ:
<b>Materials</b>	
SM: D2 T1	EQ: S1
<b>Functions</b>	
MA: R4 M3 L3	
PA: U1 H1 W1 B1 E3	SA: SV LV
<b>Context</b>	
EC: M2 L1 C12	TC: A1
SS: 1	SC: 2 ( 3y)
LMS: 2000-3000(0 %SE)	ASIC: 41,42

### 6818-E APPRENTICE PLASTERER

Receives instruction and training in the trade of plastering.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May receive instruction and training in a particular area of plastering and be designated accordingly, e.g.  
Apprentice Fibrous Plasterer  
Apprentice Solid Plasterer  
Apprentice Fibrous Plasterer and Gypsum Plasterboard Fixer

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
HC: R	RQ:
<b>Materials</b>	
SM: D2 T1	EQ: S1 N2
<b>Functions</b>	
MA: R4 M3 L3	
PA: U1 H1 W1 B1 E4	SA: SV LV
<b>Context</b>	
EC: M2 L1 C12	TC: A1
SS: 1	SC: 2 ( 3y)
LMS: 300-500 (0 %SE)	ASIC: 41,42

### 6818-F APPRENTICE PLUMBER

Receives instruction and training in the trade of plumbing.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May receive instruction and training in a particular area of plumbing and be designated accordingly, e.g.  
Apprentice Drainer  
Apprentice Gasfitter  
Apprentice Leadburner  
Apprentice Gasfitter and Leadburner  
Apprentice Plumber, Drainer and Gasfitter

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP:
HC: R	RQ:
<b>Materials</b>	
SM: D2 T1	EQ: S1 N2 M2
<b>Functions</b>	
MA: R4 M3 L3	
PA: P2 U1 H1 W1 B2 E3	SA: SV LV

<i>Context</i>	
EC: M2 L3 C06,02	TC: A1
SS: 1	SC: 2 ( 3y)
LMS: 7000-9000(0 %SE)	ASIC: 41,42

### 6818-G APPRENTICE ROOF SLATER AND TILER

Receives instruction and training in the trade of roof slating and tiling.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

May receive instruction and training in a particular area of roof slating and tiling and be designated accordingly, e.g.  
Apprentice Roof Slater      Apprentice Roof Tiler

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP:
HC: R	RQ:
<i>Materials</i>	
SM: D2 T1	EQ: S1 N1
<i>Functions</i>	
MA: R4 M3 L3	
PA: U1 H1 W1 B1 E4	SA: SV LV
<i>Context</i>	
EC: M2 L2 C12	TC: A1
SS: 1	SC: 2 ( 3y)
LMS: 400-700 (0 %SE)	ASIC: 41,42

### 6818-H APPRENTICE SIGNWRITER

Receives instruction and training in the trade of signwriting.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP:
HC: RA	RQ:
<i>Materials</i>	
SM: D2 T1	EQ: S1
<i>Functions</i>	
MA: R4 M3 L3	
PA: U1 H1 W1 B1 E3	SA: SV LV
<i>Context</i>	
EC: M2 L1 C12	TC: A1
SS: 1	SC: 2 ( 3y)
LMS: 2000-3000(0 %SE)	ASIC: 41,42

### 6818-I APPRENTICE WALL AND FLOOR TILE LAYER

Receives instruction and training in the trade of wall and floor tile laying.

Performs duties as described under Master Title APPRENTICE, on a progressive basis according to a training schedule.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP:
HC: R	RQ:
<i>Materials</i>	
SM: D2 T1	EQ: S1 N2
<i>Functions</i>	
MA: R4 M3 L3	
PA: U1 H1 W1 E3	SA: SV LV I2
<i>Context</i>	
EC: M2 L1	TC: A1
SS: 1	SC: 2 ( 3y)
LMS: 150-300 (0 %SE)	ASIC: 41,42

### 6818-Z CONSTRUCTION TRADE APPRENTICE OCCUPATIONS nec

This residual group covers construction trade apprentice occupations not elsewhere classified in Unit Group 6818.

## MINOR GROUP 689 OTHER CONSTRUCTION OCCUPATIONS

Other Construction Occupations are classified in the following unit groups.

- 6890 Specialist Non-Trade Construction Occupations
- 6891 Builders' Labourers
- 6892 Building Service Occupations
- 6893 Marine Construction Occupations

### 6890 SPECIALIST NON-TRADE CONSTRUCTION OCCUPATIONS

This unit group covers specialist non-trade construction occupations concerned with structural steel erecting (rigging), scaffolding, concrete finishing, steel fixing, lagging or installing insulation.

**Entry Requirements** no formal requirements, but persons entering the occupations of structural steel erector or scaffolder must meet State age requirements and complete basic vocational courses in order to obtain appropriate State licences or certificates.

**Activities include** examining plans and specifications; directing activities of assistants and other workers; setting out work; cutting materials to size and shape; fixing materials in place; erecting and dismantling structural steel frames and scaffolds; pouring, spreading, smoothing and finishing concrete; positioning and securing steel bars and steel mesh in concrete forms; installing and applying insulating materials to equipment and structures; and checking alignment of work.

#### 6890-A STRUCTURAL STEEL ERECTOR Rigger, Construction; Steel Worker, Construction

Erects and dismantles, as member of a team, structural steel frames of buildings or other structures.

Unloads and sorts structural steel and equipment by directing crane operator, using hand signals. Sets up rigging equipment to raise and position girders, plates, columns and other steel units. Erects scaffolding with guard rails, guy wires, manilla ropes and cleats, using electric bolt wrench and hand tools. Lays planks and hangs safety nets. Fastens steel unit to cable of hoist, using chain, cable or rope. Directs hoist operator to position steel units according to specifications and blueprints, using hand signals. Works steel units into approximate position while they are supported by hoist, using rope tag line, turn-buckles, crowbars, jacks and hand tools. Cuts and shapes steel unit using oxy-acetylene or electric welding equipment. Aligns and bolts steel units in place until permanently bolted or welded. Verifies horizontal and vertical alignment and angle.

May erect cranes.

*Related Occupation*

Occupation 7103-A : Rigger

#### *Job Content Factors*

##### *Workers*

FP: GE NFR PSP1y(B)

IP:

HC: R

RQ: S1

##### *Materials*

SM: D2 P2 T1

EQ: S1 M1

#### *Functions*

MA: D2 R3 M3 L2

PA: U1 H2 W1 B1 E4

SA: SV LV

#### *Context*

EC: M2 L2 C12

TC: A1

SS: 7

SC: 7 ( 0y)

LMS: 4000-5000(10%SE)

ASIC: 41,42

#### 6890-B SCAFFOLDER Scaffold Erector

Erects and dismantles scaffolding framework in or around entertainment venues, buildings or industrial sites to provide a work platform, temporary seating or raised stage.

Loads and unloads truck with equipment required for scaffold. Verifies level of ground before scaffold is erected, using plumb bob, to determine type of scaffolding required. Fits together steel bars, support braces and pipes to form a base for scaffold, using clamps and hand tools. Signals crane operator to lift and position parts of scaffolding. Fits and bolts pipes and steel bars together until scaffold reaches desired height, using wrench. Places wooden planks over horizontal bars for support. Verifies level of joists using plumb bob. Dismantles scaffold after job has been completed, using hand tools.

#### *Job Content Factors*

##### *Workers*

FP: GE NFR PSP6-12m(B)

IP:

HC: R

RQ: S1

##### *Materials*

SM: D2 P2 T1

EQ: S1

*Functions*

MA: D2 R3 M3 L2

PA: U1 H1 W1 B1 E4

SA: SV LV

*Context*

EC: M2 L2 C12

TC: A1

SS: 7

SC: 7 ( 0y)

LMS: 8000-9000(10%SE)

ASIC: 41,42

**6890-C**

**CONCRETE FINISHER**

**Cement Finisher; Concrete Layer; Concrete Slab Layer; Concrete**

Pours, spreads, smooths and finishes concrete surfaces on projects such as floors, stairs, ramps, sidewalks, bridges, and other concrete structures.

Pushes and pulls screed or template over surface of concrete in concrete form to spread it to specified depth. Tamps, smooths, shapes and seals concrete for specified surface texture, using variety of hand tools. Operates trowelling machine to float, trowel and polish large surface areas of concrete. Installs fixtures in concrete as specified, such as anchor bolts for equipment, steel plates and door sills. Wets concrete, and rubs with abrasive stone to finish vertical surfaces. Directs and assists workers covering freshly poured concrete with materials such as sawdust, burlap, water and oil coating, colouring powder and stone chips to achieve specified surface on concrete. Cuts lines in concrete as specified, using power cutter. Forms expansion joints and edges, using edging tools, jointers, and straight-edge.

May reinforce concrete structures on small construction projects. May work on a contract basis, or specialise in laying concrete floors and be designated accordingly, e.g.

Contractor, Concreting

Concrete Floor Layer; Floor Layer, Concrete

*Related Occupations*

Unit Group 6815 : Plasterers

*Job Content Factors*

*Workers*

FP: GE NFR

IP: T6-12m

HC: R

RQ:

*Materials*

SM: D2 P2 T1

EQ: S1 M2

*Functions*

MA: D2 R3 M3 L2

PA: U1 W1 E3

SA: SV LV B1 R4

*Context*

EC: M2 L2 C12

TC: A1

SS: 7

SC: 7 ( 0y)

LMS: 13000 (40%SE)

ASIC: 41,42

**6890-D**

**STEEL FIXER**

Positions and secures steel bars or steel mesh in concrete forms to reinforce concrete structures.

Determines size, shape, quantity and location of reinforcing metal according to drawings or oral instructions. Selects, cuts and bends metal bars using measuring tape, bar cutters, vice and bending machine. Assembles bars in concrete forms as specified. Welds or wires bars in place using welding torch and pliers. Measures, cuts, bends and fits welded wire mesh in area to be mesh-reinforced, using bolt cutter and tie wire. Holds mesh in position with hooked rod while concrete mixture is poured to form slab.

May work in concrete plant in areas of pre-stressing, post-stressing and tensioning using hydraulic jacks and tensioning mechanisms.

*Job Content Factors*

*Workers*

FP: GE NFR

IP: T6-12m

HC: R

RQ:

*Materials*

SM: D2 T1

EQ: S1 M1

*Functions*

MA: D2 R3 M3 L2

PA: U1 H1 W1 B1 E4

SA: SV LV

*Context*

EC: M2 L2 C12

TC: A1

SS: 7

SC: 7 ( 0y)

LMS: 4000-5000(10%SE)

ASIC: 41,42

**6890-E**

**LAGGER**

**Boiler and Pipe Lagger; Felter, Boiler and Pipe; Internal Lagger; Insulation Pipe Coverer (Lagging); Pipe Lagger**

Applies insulating materials such as asbestos, felt, fibreglass, polyurethane and cork to pipes, steam generators, process vats or ducting to reduce loss or absorption of heat, prevent moisture condensation or corrosion, and deaden sound.

Examines specifications to determine insulation requirements. Cuts, shapes, trims, and smooths insulating sheets and blocks to cover and fit parts of equipment such as expansion chambers, condensers and piping. Wraps insulating material around pipes and secures with staples, wire or strapping. Fits and tapes preformed insulation around pipes. Wraps or fits insulating materials around air-conditioning ducts, and trims materials with scissors or shears. Brushes or sprays waterproof cement over insulating material. Secures insulation with wire, wire netting, staples, metal strapping or using welding torch. Trowels plaster over wire netting and wraps canvas strips over plaster. Packs cavities in walls or partly assembled casing with loose particles of insulating material. Installs prefabricated insulating assemblies, using hand tools and metal fasteners.

May perform a specialised lagging function and be designated accordingly, e.g.

Pipe-Joint Lagger

Pipe-Joint Doper

Pipe-Covering-Machine Operator

*Job Content Factors*

*Workers*

FP: GE NFR

IP: T3-12m

HC: R

RQ:

*Materials*

SM: D2 T1

EQ: S1 N2

*Functions*

MA: D2 R3 M3 L2

PA: U1 H1 W1 B1 E3

SA: SV LV

*Context*

EC: M2 L2 C02,12

TC: A1

SS: 7

SC: 7 ( 0y)

LMS: 200-500 (10%SE)

ASIC: 41,42

**6890-Z**

**SPECIALIST NON-TRADE**

**CONSTRUCTION OCCUPATIONS nec**

This residual group covers specialist non-trade construction occupations not elsewhere classified in Unit Group 6890.

### 6891 BUILDERS' LABOURERS

This unit group covers builders' labourers working on building, bridge, pipeline and related construction projects.

**Entry Requirements** no formal requirements, but persons entering occupations in this group must meet minimum age requirements to work on construction sites.

**Activities include** loading and unloading construction materials; assisting in wrecking buildings; and moving materials between work areas.

#### 6891-A BUILDERS' LABOURER Building Worker; Construction Worker

Performs any combination of the following duties on construction sites in erecting, repairing and dismantling structures or facilities such as buildings, bridges and pipelines, and in other locations such as pre-cast building components factories and building suppliers' yards.

Loads and unloads construction materials. Moves materials between work areas to supply other workers. Mixes, pours and spreads materials such as concrete. Sets braces and cross-arms on shoring used to support sides of excavations. Directs truck driver to designated areas where loads are to be dumped. Shovels and rakes earth. Erects and dismantles ramps and catwalks. Erects barricades and places lights to isolate work areas and protect workers from street traffic. Assists in wrecking buildings by prising and hammering apart sections of structure. Sorts, cleans and piles salvaged materials. Removes rubble and accumulated debris to provide clear work areas using rake, shovel and wheelbarrow. Cleans and stores tools and equipment. Breaks-up and drills through rock, concrete and other materials with pneumatic tools such as jackhammers and rock drills. Lifts and holds heavy parts in position for securing by other workers.

May handle explosives and charges for use in blasting. May provide direct assistance to tradespersons in a particular construction trade or specialise in other aspects of labouring work and be designated accordingly, e.g.

Barrowman/woman

Braceman/woman

Jack Hammer Operator      Shovelman/woman  
Bricklayers' Assistant; Bricklayers' Labourer  
Carpenter and Joiners' Assistant; Carpet Layers' Assistant;  
Painter and Decorators' Assistant; Brush Hand (Painting);  
Painters' Assistant; Wallpaperers' Assistant  
Plasterers' Assistant; Fibrous Plaster Fixers' Assistant;  
Plumbers' Assistant; Clamper, Pipeline;  
Drainer (Unlicensed); Pipe Layer (Non-Trade Worker);  
Roof Slater and Tilers' Assistant; Signwriters' Assistant  
Wall and Floor Tilers' Assistant; Tilers' Assistant  
Demolition Worker; Demolisher, Building; Wrecker,  
Building

#### Job Content Factors

##### Workers

FP: GE NFR

IP: T3-6m

HC: R

RQ:

##### Materials

SM: T1

EQ: S2 N1 M2

##### Functions

MA: D3 R4 L3

PA: U1 H1 W1 B1 E4

SA: SV LV

##### Context

EC: M2 L2 C06,12,03

TC: A1

SS: 7

SC: 7 ( 0y)

LMS: 140000 (0 %SE)

ASIC: 41,42

### 6892 BUILDING SERVICE OCCUPATIONS

This unit group covers occupations concerned with providing a service related to construction projects and established buildings.

**Entry Requirements** 1-2 years' experience.

**Activities include** erecting and repairing fences and gates; and installing home improvements and insulation material.

#### 6892-A FENCE ERECTOR Fencing Contractor

Erects and repairs fences and gates made from wooden, metal, fibre-cement and related materials, using any combination of

the following techniques.

Lays out fence line and marks position for post holes according to specification, using tape measure, pegs and hammer. Digs post holes using power-driven auger or hand

tools. Lifts and positions posts in holes. Mixes and pours concrete around base of posts, or tamps stone fill and soil to secure them. Verifies alignment of posts using string-line, plumb bob or level. Attaches rails or tension wires along top and bottom of posts to form fencing frame. Stretches wire, wire mesh or chain link fencing between posts and secures it. Attaches gates to gate posts with hinges, using hand tools. Strings barbed wire across fence tops as required. Cuts timber fence rails to required lengths and fixes to fence posts. Nails pickets of palings to fence frame. Erects alternative panel, basket weave or louvred fences using timber or fibre-cement materials. Digs trenches for self-supporting fibre-cement fences using trench digging machinery and hand tools. Positions fibre-cement sheets in trench, checks alignment, and secures sheets by tamping soil around sheets.

May provide quotations on cost of materials and labour for fence at request of customer. May specialise in erecting fences made from particular materials and be designated accordingly, e.g.

Asbestos (Fibre-Cement) Fence Contractor/Erector  
Brush Fencing Contractor/Erector  
Wire Fence Contractor/Erector

**Job Content Factors**

<i>Workers</i>	
FP: GE NFR	IP: T3m E1-2y
HC: RI	RQ: L1 V2
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 M1 V1
<i>Functions</i>	
MA: I2 P2 D2 R3 M3 L3	
PA: P2 U1 C1 H2 W1 E4	SA: S1 B2 R4
<i>Context</i>	
EC: M1 L2 C09,13,01	TC: A1 I2 R2
SS: 7	SC: 7 (0y)
LMS: 100-500 (80%SE)	ASIC: 41,42

**6892-B INSULATION INSTALLER**  
**Building Insulator**

Installs and applies insulating material such as foam, granules, foil, solar film, batts or blankets to walls, floors, windows and ceilings of buildings being constructed or renovated, or those already established, to prevent or reduce passage of heat, cold, air, sound or moisture.

Examines plans and specifications to determine type and quantity of insulation required and location of insulation materials to be installed. Sets up scaffolding or ladders for areas inaccessible from floor level. Nails furring strips to walls and ceilings to provide base for fastening insulation, as required. Cuts insulation material to required length, width and shape using knife, shear, hand or power saw. Nails or staples batt-type insulation to joists, studs or furring. Staples vapour barrier sheeting to studs. Fits insulation around obstructions such as pipes and wiring to prevent circulation of air. Glues insulating blocks and slabs of foamed plastic or cork to walls. Fits friction-fit batts between studs or joists. Manipulates hose to blow insulating material such as mineral wool loose fill and cellulose fibre fill into enclosed areas. Sets up and operates equipment to inject or spray foamed insulation on structures or into cavities. Measures, cuts and applies solar control film to glass windows.

May specialise in installing a certain type of product and be designated accordingly, e.g.

Fibreglass Installer  
Foam Insulator  
Window Tinter

**Job Content Factors**

<i>Workers</i>	
FP: GE NFR	IP: T3-12m E1y
HC: R	RQ:
<i>Materials</i>	
SM: D2 T1	EQ: S1 N2
<i>Functions</i>	
MA: D2 R3 M3 L2	
PA: U1 H1 W1 B1 E3	SA: SV LV I2
<i>Context</i>	
EC: M2 L2 C02,12	TC: A1
SS: 7	SC: 7 (0y)
LMS: 100-500 (20%SE)	ASIC: 41,42

**6892-C INSTALLER, HOME IMPROVEMENTS**

Uses basic hand and power tools and specific product knowledge to install home improvements such as awnings, drapes, blinds, flyscreens, garage doors, exterior cladding, shower screens, prefabricated windows and doors, and other functional or decorative products.

Examines specifications and work site to plan layout for installation. Measures installation site and marks location for frame, brackets or hinges. Drills holes in wood, brick, stone or fibrous structures. Drives expansion shields into holes in brick or stone to receive lag bolts. Bolts, screws or nails frame fittings into place. Fits frame and home improvement to structure and fastens it into position with hand tools. Attaches and adjusts mechanical fittings such as cranks, locks and pull-cords. Installs flashing and weatherproofing to fittings such as awnings, shower screens and prefabricated windows and doors.

May provide quotations on cost of materials and labour for particular home improvement at request of customer. May specialise in installing a particular product and be designated accordingly, e.g.

Awnings Installer  
Partition Fixer  
Shower Screen Installer  
Window Installer; Window Fitter  
Exterior Cladding Installer (Buildings)

Garage Door Installer  
Wallboard Fixer

**Job Content Factors**

<i>Workers</i>	
FP: GE NFR	IP: T2-3m E1-2y
HC: RAS	RQ: S1 U2 D2 V1
<i>Materials</i>	
SM: D2 P2 T1	EQ: S1 N1 M1
<i>Functions</i>	
MA: A2 P2 D2 R3 M2 L3	
PA: P2 U1 W1 B1 E4	SA: S1 L2 I1 B2 R4
<i>Context</i>	
EC: M2 L4 C09,12	TC: A1 T2
SS: 7	SC: 7 (0y)
LMS: 100-500 (80%SE)	ASIC: 41

**6893 MARINE CONSTRUCTION OCCUPATIONS**

This unit group covers small boat building occupations concerned with construction and maintenance of craft.

**Entry Requirements** a trade qualification in boat building, and 2-5 years' experience in the case of craftsmen/women.

Activities include building and repairing wood or metal hulls and accessories.

Related Occupations

- Occupation 6038-A
- : Shipwright, Metal
- Occupation 6212-E
- : Shipwright, Wood

6893-A LOFTSMAN/WOMAN (MARINE)

Lays out lines of ship to full scale on mouldloft floor and constructs templates and mould to be used as patterns and guides for layout and fabrication of various structural parts of ships.

Lays out full-scale portions of ship's plan, working from drawings and tables of offsets. Marks frame lines and other reference lines on loft floor with marking instrument. Measures dimensions between lines and prepares table of offsets. Compares prepared tables with tables or drawings. Constructs template, using knowledge of geometric construction, and hand tools and woodworking machines, such as power saws, jointer, and drills. Marks templates with identifying data and instructions, such as number of pieces to be made, type and weight of stock, and location for installation, following drawing specifications.

May construct full-scale wood mock-ups of ship's parts and sections for use as guide in shaping or positioning parts. May lay out and construct wooden plugs (master patterns) used in making moulds for hulls and decks of fibreglass boats.

Job Content Factors

Workers	
FP: GE10y PSP4y(T)	IP: E2-5y
HC: IRE	RQ: D2 V1
Materials	
SM: D2 I2 P2 T1	EQ: P1 S1 M1
Functions	
MA: I2 A1 P1 D2 R3 M2 L2	
PA: P1 U2 S2 W1 E4	SA: S1 B2 R3-4
Context	
EC: L4 C09,04,07	TC: A1 I1 T2
SS: 3	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 412,324

6893-B BOAT BUILDER/REPAIRER

Fabricates, repairs or modifies boats to specifications and drawing, using hand tools, power tools and measuring instruments.

Lays out full-scale outline of boat on mouldloft floor, using crayon, scales and protractor, following drawings and table of offsets. Establishes dimensional reference points on layout and makes templates of parts. Scribes dimensional lines following templates, and cuts and forms parts such as keel, stern, stern post, ribs and sidings, using hand and power tools. Assembles shell of boat by forming steam softened sidings on mould, removing mould, and securing sidings to keel, or by securing ribs to keel and covering ribs with planking. Builds and installs structures such as mountings for machinery, shafting and propellor supports, pilot house, cabin and rudder. Installs decking, mast, booms and ladders, using hand and power tools, scales, callipers and gauges.

May specialise in building or repairing a particular type of boat and be designated accordingly, e.g.

- Boat Builder, Aluminium
- Boat Builder, Fibreglass
- Boat Builder, Wood
- Boat Repairer

Job Content Factors

Workers	
FP: GE10y PSP4y(T)	IP:
HC: RIE	RQ: Q2 U2 V1
Materials	
SM: D2 P2 T1	EQ: S1 M1
Functions	
MA: I2 A2 P2 D2 R3 M2 L2	
PA: P1 U2 C1 W1 E3	SA: S1 I2 B2 R4
Context	
EC: L1 C09,02,07	TC: A1 I2 T2
SS: 3	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 324,914

## **SUPER GROUP 7**

### **Transport and Materials Handling Occupations**

Transport and Materials Handling Occupations are classified in the following major groups.

- 70 Transport Operating Occupations
- 71 Materials Handling Occupations

## **MAJOR GROUP 70**

### **TRANSPORT OPERATING OCCUPATIONS**

Transport Operating Occupations are classified in the following minor groups.

- 700 Air Transport Operating Occupations
- 701 Water Transport Operating Occupations
- 702 Railway Transport Operating Occupations
- 703 Road Transport Operating Occupations

## 700 AIR TRANSPORT OPERATING OCCUPATIONS

7000 AIRWAYS SURVEYORS AND EXAMINERS OF  
AIRCREW

7000-A Airways Surveyor  
7000-B Examiner of Aircrew

## 7001 AIR PILOTS AND FLIGHT INSTRUCTORS

7001-A Airline Pilot  
7001-B Commercial Pilot, General Aviation  
7001-C Helicopter Pilot  
7001-D Flying Instructor/Instructress, Fixed Wing Aircraft  
7001-E Flying Instructor/Instructress, Helicopter  
7001-F Ground School Instructor/Instructress  
7001-Z Air Pilots and Flight Instructors nec

7002 AIR TRANSPORT OPERATING SUPPORT  
OCCUPATIONS

7002-A Air Traffic Controller  
7002-B Flight Service Officer, Government  
7002-C Operations Controller, Air Transport (Government)  
7002-Z Air Transport Operating Support Occupations nec

7009 OTHER AIR TRANSPORT OPERATING  
OCCUPATIONS

7009-A Flight Engineer  
7009-B Airworthiness Surveyor  
7009-Z Air Transport Operating Occupations nec

702 RAILWAY TRANSPORT OPERATING  
OCCUPATIONS

## 7020 SUPERVISORS, RAILWAY TRANSPORT

7020-A Station Master/Mistress, Railway  
7020-B Station Officer, Railway  
7020-C Yard Master/Mistress, Railway  
7020-Z Supervisors, Railway Transport nec

## 7021 LOCOMOTIVE DRIVING OCCUPATIONS

7021-A Locomotive Engineman/woman  
7021-B Locomotive Assistant  
7021-Z Locomotive Driving Occupations nec

7029 OTHER RAILWAY TRANSPORT OPERATING  
OCCUPATIONS

7029-A Guard, Railway  
7029-B Signalman/woman, Railway  
7029-C Shunter, Railway  
7029-D Train Controller  
7029-E Train Examiner  
7029-Z Railway Transport Operating Occupations nec

701 WATER TRANSPORT OPERATING  
OCCUPATIONS

## 7010 MARINE SUPERINTENDENTS AND SURVEYORS

7010-A Marine Surveyor  
7010-B Marine Engineer Surveyor  
7010-C Marine Superintendent (Deck)  
7010-D Marine Engineer Superintendent

## 7011 SHIP'S PILOTS AND DECK OFFICERS

7011-A Pilot, Ship  
7011-B Master, Ship  
7011-C Mate, Ship  
7011-D Master, Tug  
7011-E Master, Ferry Boat/Passenger Launch/River Boat  
7011-Z Ship's Pilots and Deck Officers nec

## 7012 BOATSWAINS

7012-A Boatswain

## 7013 DECKHANDS

7013-A Deckhand

7014 MARINE ENGINE AND BOILER-ROOM  
OCCUPATIONS

7014-A Marine Engine Driver  
7014-B Marine Donkeyman/woman  
7014-C Marine Greaser  
7014-Z Marine Engine and Boiler-Room Occupations nec

## 7015 TRAINEE OCCUPATIONS, WATER TRANSPORT

7015-A Cadet Deck Officer  
7015-B Cadet Marine Engineer

7019 OTHER WATER TRANSPORT OPERATING  
OCCUPATIONS

7019-A Marine Engineer Officer  
7019-Z Water Transport Operating Occupations nec Except Armed Services nec

703 ROAD TRANSPORT OPERATING  
OCCUPATIONS

## 7030 BUS, TRAM AND TRUCK DRIVERS

7030-A Bus Driver  
7030-B Tram Driver  
7030-C Truck Driver, Light  
7030-D Truck Driver, Heavy  
7030-E Truck Driver, Articulated  
7030-Z Bus, Tram and Truck Drivers nec

## 7031 AUTOMOBILE DRIVERS

7031-A Chauffeur/Chauffeuse  
7031-B Hire Car Driver  
7031-C Taxi Driver

7039 OTHER ROAD TRANSPORT OPERATING  
OCCUPATIONS

7039-A Driving Instructor/Instructress, Motor Vehicle  
7039-B Courier, Road Transport  
7039-C Inspector, Bus/Tram  
7039-Z Road Transport Operating Occupations nec

MINOR GROUP 700  
AIR TRANSPORT OPERATING OCCUPATIONS

Air Transport Operating Occupations are classified in the following unit groups.

- 7000 Airways Surveyors and Examiners of Aircrew
- 7001 Air Pilots and Flight Instructors
- 7002 Air Transport Operating Support Occupations
- 7009 Other Air Transport Operating Occupations

Related Occupations

- Minor Group 420 : Exclusively Military Occupations
- Unit Group 6051 : Aircraft Ground Engineers

7000 AIRWAYS SURVEYORS AND EXAMINERS OF AIRCREW

This unit group covers occupations concerned with the examination and inspection of aircrew, aircraft and air transport facilities to ensure the maintenance of appropriate safety standards.

**Entry Requirements** a senior commercial or airline transport pilot's licence and a 1st Class Instrument Rating, plus 10-15 years' experience.

**Activities include** inspecting aircraft operations and navigational aids, and standards and procedures for aircrews.

7000-A AIRWAYS SURVEYOR

Responsible for testing and safety of air transport facilities by inspection of aircraft operations, navigational aids and procedures, and pilot control.

Develops and reviews operational standards, specifications and procedures. Conducts ground inspections, and reports on operational limits, licensing, provision and physical layout of aerodromes, including lighting and operational length, marking and lighting of obstructions, aircraft performance, instrumentation, emergency equipment performance, cargo, and search and rescue techniques. Conducts surveys for the application of rules of the air, instrument approach and holding, assignment of air space, and meteorological services. Examines requests for alteration or concessions of standards, and International Airways Organisation proposals. Revises operational manuals and air navigation orders.

May be engaged in conducting flight surveys of navigational aids, evaluation of results and preparation of operational reports as to the accuracy of navigational aids, and in the development of flight survey standards, specifications and procedures and be designated accordingly,  
Flight Surveyor

May specialise in a particular phase of air survey work and be designated accordingly, e.g.  
Airway Surveyor, Air                      Airway Surveyor, Ground

Job Content Factors  
Workers

- FP: GE12y PSP2-3y(PPC)
- IP: T1y E10-15y
- HC: REC
- RQ: S1 Q1 U1 V1

Materials	
SM: D1 I2 P2 T2	EQ: P2
Functions	
MA: I1 A1 P1 D1 R2 M2 L1	
PA: P2 S2 W2 E2	SA: S1 M1 R3-4
Context	
EC: T1 L4	TC: A1
SS: 9	SC: I2 (na)
LMS: 40 ( 0%SE)	ASIC: 5404

7000-B EXAMINER OF AIRCREW

Helps maintain the safety of air operations by developing and reviewing standards and procedures for aircrews.

Conducts flight checks and ground inspections and reports on the operational efficiency of domestic and international air services, the training and licensing of pilots, the operational efficiency of aircraft operators' aircrews, checking and training organisations and the issue and renewal of instrument ratings for pilots. Examines requests for changes in standards, ensures that recommended standards and procedures are interpreted and applied uniformly, advises on aircraft performance, instrumentation and emergency equipment, and requirements for aerodrome and associated training areas. Advises on requirements for navigation aids and airways facilities, examines and recommends on aspects of the operations manual, assists with theoretical examinations and prepares and revises air navigation regulations and orders.

May specialise in the Review of Standards and procedures and conduct flight checks and ground inspections for flight engineers and be designated accordingly,  
Flight Engineer Inspector

**Job Content Factors****Workers**

FP: GE12y PSP2-3y(PPC) IP: T1y E10-15y  
 HC: RSC RQ: S1 Q1 U1 V1

**Materials**

SM: D1 P2 T2 EQ: P2

**Functions**

MA: I2 A1 P1 D1 R2 M2 L1  
 PA: P2 S2 W2 E2 SA: S1

**Context**

EC: L1 TC: A1  
 SS: 9 SC: I2 (na)

LMS: 80 (0%SE) ASIC: 5404

**7001 AIR PILOTS AND FLIGHT INSTRUCTORS**

This unit group covers occupations concerned with piloting aircraft and teaching the theory and practice of flying.

**Entry Requirements** an airline transport, commercial pilot's or helicopter pilot's licence which includes a specified number of flying hours.

**Activities include** piloting fixed wing aircraft and helicopters to transport passengers, mail and freight on international, domestic, commuter, charter and/or executive flights; directing course of aircraft in flight using electronic navigational aids, celestial observations and dead reckoning; and instructing student pilots and qualified pilots in the theory and practice of flying fixed wing and rotary wing aircraft.

**7001-A AIRLINE PILOT**

Pilots aeroplane to transport passengers, mail and freight.

Reviews company advice to flight crew. Examines meteorological situation. Prepares or examines prepared flight plan. Assesses fuel load required and advises engineering staff. Studies operational advice regarding availability of navigational aids, operational facilities and procedures. Reviews passenger and cargo manifest and distribution. Examines maintenance release to ensure any necessary servicing actioned. Signs necessary certificates, accepting responsibility for safety of aircraft passengers and crew during flight. Briefs crew. Conducts routine check of instruments, switches and controls, assisted by co-pilot and flight engineer. Obtains departure clearance from control tower by radio, and briefs crew on procedure to be followed after take-off. Tunes radio navigation equipment. Attempts smooth take-off after obtaining take-off clearance from control tower by radio. Adjusts aircraft configuration for climb and cruise flights. Pilots aeroplane to destination. Reports progress of flight to air traffic control. Manages cockpit resources, co-ordinates crew activities, assimilates information from instruments and other sources to keep aeroplane on track and flying safely. Calculates best descent point. Maintains good public relations with passengers. Briefs crew on descent approach pattern to be flown and allocates tasks. Prepares aeroplane for landing following set procedures. Controls application of brakes and reverse thrust to reduce speed. Taxis aircraft to parking position and shuts down engines. Completes remainder of cockpit checks and paper work, recording flight time.

May be designated according to degree of responsibility exercised, e.g.

Aircraft Captain First Officer, Aircraft  
 Second Officer, Aircraft

**Job Content Factors****Workers**

FP: GE12y PSP2-3y(PPC) IP: E3-6y  
 HC: RIC RQ: S1 Q2 U2 D1 V1 A2

**Materials**

SM: D1 P2 T1 EQ: P2 K2 V1

**Functions**

MA: I2 A1 P1 D2 R2 M2 L2  
 PA: P2 C1 S1 E2 SA: S1 B1 R4-3

**Context**

EC: T1 M2 L1 TC: A1 I1 T2  
 SS: 4 SC: I2 (na)

LMS: 3500 (0%SE) ASIC: 54

**7001-B COMMERCIAL PILOT, GENERAL AVIATION**

Pilots aircraft other than domestic airline aircraft in a variety of roles including commuter, charter and executive flights.

Prepares and submits flight plan in accordance with meteorological information and ensures aircraft is serviceable and properly loaded for the flight. Flies aircraft to required destinations and, as captain of the aeroplane, is responsible for the safety of flight and efficiency of the operation. Performs duties similar to 7001-A AIRLINE PILOT.

**Job Content Factors****Workers**

FP: GE12y PSP2-3y(PPC) IP: E1-3y  
 HC: RIC RQ: S1 Q2 U2 D1 V1 A1

**Materials**

SM: D1 T1 EQ: P2 K2 V1

**Functions**

MA: I2 D2 R2 M2 L2  
 PA: P2 C1 S1 E2 SA: S2 B2 R3-4

**Context**

EC: T1 M2 L1 TC: I1 T2  
 SS: 3 SC: 9 (na)

LMS: 4000 (10%SE) ASIC: 54

**7001-C HELICOPTER PILOT**

Pilots helicopter to transport passengers and freight, determining specific task details involved.

Determines quantity of personnel and/or freight to be moved, location of pick-up and destination, routes to and from destinations, plus any requirement for additional equipment. Plans flight including consideration of weather, performance graphs of helicopter type to be used, fuel requirements and

availability, and special requirements if task is to be accomplished at night or wholly or partly in Instrument Meteorological Conditions (IMC). Obtains detailed Air Traffic Control (ATC) and weather briefings, and files flight plan. Conducts detailed inspection of helicopter to determine its airworthiness and ensure that all equipment relevant to the task is operational. Performs engine start up and checks correct functioning of flight controls, instruments, radio navigation aids and radios. Flies helicopter to task location in accordance with established ATC and aircraft operating procedures. Plans and executes task in accordance with prescribed procedures. Completes documentation pertaining to flight.

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP2-3y(PPC)	IP: E1-6y
HC: RCI	RQ: S1 Q2 U2 D2 V1 A1
<b>Materials</b>	
SM: D1 P2 T1	EQ: P2 K2 V1
<b>Functions</b>	
MA: I2 P1 D2 R2 M2 L2	
PA: P2 C1 S1 E2	SA: S2
<b>Context</b>	
EC: T1 M1 L1	TC: I1 T2
SS: 6	SC: 10 (na)
LMS: 400 ( 3%SE)	ASIC: 54

**7001-D FLYING INSTRUCTOR/INSTRUCTRESS, FIXED WING AIRCRAFT**

Instructs student pilots and qualified pilots in procedures and techniques of flying fixed wing aircraft and in post graduate rating and endorsement training.

Describes and illustrates pre-flight inspection of aircraft. Trains students in flight and supervises solo flights. Teaches theory subjects and techniques of controlling aircraft in all flight aspects including day and night flying and in cloud. Teaches use of all aircraft controls and instruments including navigation aids and navigational techniques.

May give students proficiency tests at termination of training and make recommendations for examination and licensing. May specialise in giving instruction in the techniques of non-powered flight and be designated accordingly, e.g.

Gliding Instructor/Instructress

May supervise and co-ordinate activities of other flying instructors and carry out flight tests under governmental authority, and be designated accordingly,

Chief Flying Instructor/Instructress

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP2-3y(PPC)	IP: E2-7y
HC: RIS	RQ: S1 Q2 U1 V1 A1
<b>Materials</b>	
SM: D2 P1 T1	EQ: P2 K2 V1
<b>Functions</b>	
MA: I2 P1 D2 R2 M2 L2	
PA: P2 C1 S1 W2 E2	SA: S2 P1
<b>Context</b>	
EC: T1 M1 L1	TC: A2 I1
SS: 8	SC: 10 (vy)
LMS: NA ( 5%SE)	ASIC: 54

**7001-E FLYING INSTRUCTOR/INSTRUCTRESS, HELICOPTER**

Instructs student pilots and qualified pilots in procedures and techniques of flying rotary wing aircraft and in post graduate rating and endorsement training.

Teaches students theory of rotary wing flight, operation of controls and systems, safety procedures and airmanship. Demonstrates pre-flight inspection of aircraft. Gives in-flight

instruction in use of controls and principles of operation in all flight aspects. Appraises students and reports on readiness of students for licensing examinations. Demonstrates techniques of sling loading, transporting and dropping of loads. Instructs advanced students in techniques of air current utilisation, and locating and reconnoitering high altitude landing sites. Teaches use of instruments including use of navigation aids and navigational techniques.

May specialise in the techniques of non-powered flight and be designated accordingly, e.g.

Gyroplane Instructor/Instructress

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP2-3y(PPC)	IP: T1y E2-6y
HC: RIS	RQ: S1 Q2 U1 V1 A1
<b>Materials</b>	
SM: D2 P1 T1	EQ: P2 K2 V1
<b>Functions</b>	
MA: I1 P1 D2 R2 M2 L2	
PA: P2 C1 S1 W2 E2	SA: S2 P1
<b>Context</b>	
EC: T1 M2 L1	TC: I1
SS: 8	SC: 10 (vy)
LMS: NA ( 0%SE)	ASIC: 54

**7001-F GROUND SCHOOL INSTRUCTOR/INSTRUCTRESS  
Ground Trainer, Flight Instruction**

Instructs students in ground-school classroom subjects such as aircraft performance and characteristics, airmanship, flying regulations, instrument practice, and navigation and radio procedures.

Develops course outlines and instructional procedures, and prepares study materials. Lectures, demonstrates and provides practical exercises. Instructs in operation of radio, use of morse code, radio navigation procedures, meteorology, aircraft engine performance and airframe construction characteristics, and air regulations and procedures. Conducts instrument flight training exercises using flight simulator. Demonstrates use of aircraft emergency equipment. Tests students' progress using written theoretical, practical and verbal examination techniques.

May brief students on route or airport characteristics, and on weather limitations. May specialise in a particular aspect of ground-school instruction and be designated accordingly, e.g.

Flight-Simulator Instructor/Instructress; Simulator Instructor/Instructress, Aircraft

**Job Content Factors**

<b>Workers</b>	
FP: GE12y PSP2-3y(PPC)	IP: T1y E1-2y
HC: RC	RQ: Q2 U2 V2 A2
<b>Materials</b>	
SM: P1 T1	EQ: P2
<b>Functions</b>	
MA: I2 A2 P2 D2 R2 M2 L2	
PA: C1 S1 W2 E2	SA: S2 P1
<b>Context</b>	
EC: L1	TC: A1 I2
SS: 8	SC: 10 (vy)
LMS: NA ( 0%SE)	ASIC: 54

**7001-Z AIR PILOTS AND FLIGHT INSTRUCTORS nec**

This residual group covers pilots and flight instructors not elsewhere classified in Unit Group 7001, e.g.

Agricultural Pilot; Aerial Crop Sprayer  
Cadet Airline Pilot; Trainee Airline Pilot  
Test Pilot

## 7002 AIR TRANSPORT OPERATING SUPPORT OCCUPATIONS

This unit group covers occupations concerned with providing direct ground support to air transport operations.

**Entry Requirements** satisfactory completion of an appropriate Department of Aviation course plus, in some cases, 5 years' experience. Persons wishing to undertake formal training in air traffic control may gain entrance to a reduced course of study if they have previous flying experience.

**Activities include** controlling air traffic during take-off, landing and en route; providing information required for the safe and efficient conduct of flight; and issuing instructions regarding search and rescue operations in the event of emergencies.

### 7002-A AIR TRAFFIC CONTROLLER

Controls and provides information required for the safe, orderly and expeditious movement of all aircraft within controlled airspace, or manoeuvring on the ground at controlled aerodromes.

Communicates with aircraft by radio. Provides a positive separation service to aircraft by applying lateral, longitudinal or vertical separation standards using radar or non-radar procedures. Issues taxiing, take-off and landing instructions and information such as runway in use, wind direction and strength, amount and weight of cloud and height of cloud base, temperature and altimeter setting. Selects and operates at the correct intensity airport lighting systems including runway lights, approach lights, visual approach slope indicator systems ("T" VASIS), taxiway, obstruction and flood lights, hazard and aerodrome beacons. Activates stand-by radio equipment and electrical power units as required. Alerts airport fire crew and emergency services in cases where an aircraft operating on or in the vicinity of the aerodrome is experiencing difficulties. Alerts the operational search and rescue organisation on becoming aware of any uncertainty regarding the safety of any aircraft or its occupants. Issues airways clearances to aircraft, authorises changes of flight levels and altitudes, and monitors progress of flights by obtaining and checking position reports, flight level and estimated times over the next reporting point or at destination. Liaises with other air traffic control and flight service centres and units, military air traffic control and meteorological services by means of intercom, radio and telephone systems. Instructs ATC trainees and conducts on-the-job training of licensed controllers to enable them to qualify for additional ratings.

#### Job Content Factors

<b>Workers</b>	
FP: GE10-12y PSP3-4y(PPC) or FP: GE12y PSP3y(PPC)	IP: E1y IP:
HC: RIC	RQ: Q2 U2 V1
<b>Materials</b>	
SM: D2 P2	EQ: P1 K2
<b>Functions</b>	
MA: I1 P2 D1 R2 M2 L2 PA: S2 E1	SA: S1 M1 R4
<b>Context</b>	
EC: L1 SS: 5	TC: I1 T2 SC: 10 (na)
LMS: 1000 ( 0%SE)	ASIC: 54

### 7002-B FLIGHT SERVICE OFFICER, GOVERNMENT

Provides, within assigned airspace, such advice and information as may be required for the safe and efficient conduct of flights, and notifies appropriate organisations regarding aircraft known to be or believed to be in need of search and rescue aid, assisting those organisations as

required.

Provides a briefing and aeronautical information service to pilots pre-flight, and accepts and distributes flight plans as necessary. Provides pilots flying in uncontrolled airspace with traffic information as appropriate regarding other aircraft in their vicinity, and advises, as necessary, changes in weather conditions and in the operational status of aerodromes, navigational aids, communications facilities etc. Maintains a check on the progress of flights and initiates search and rescue alerting action in the event of an emergency, or if an aircraft is overdue. Operates a variety of communications and other facilities such as radio transmitters and receivers, radio navigational aids, airport and runway lighting, direct speech intercommunications channels and teletypewriter services.

#### Job Content Factors

<b>Workers</b>	
FP: GE11-12y PSP1y(PPC)	IP: T1-3y
HC: RIC	RQ: V1
<b>Materials</b>	
SM: D1 P2	EQ: P2 K2
<b>Functions</b>	
MA: I1 A2 P2 D1 R2 M2 L2 PA: P2 S2 W2 E1	SA: S1
<b>Context</b>	
EC: L1 SS: 4	TC: A1 I1 T2 SC: 8 (na)
LMS: 800 ( 0%SE)	ASIC: 54

### 7002-C OPERATIONS CONTROLLER, AIR TRANSPORT (GOVERNMENT)

Is responsible for the functions of operational control, search and rescue and the aeronautical information service.

Controls the initiation, continuation, diversion or termination of flights in order to ensure the safety of aircraft operations. Normally limits operational control to particular airspace, but also provides control for aircraft in difficulties in area outside assigned airspace. Organises search and rescue assistance to aircraft in distress and the provision of aid to survivors of aircraft accidents and forced landings. Provides information necessary for the safety, regularity and efficiency of air navigation in a form suitable to the operational requirements of flight crews, airways operations and other personnel responsible for the provision of pre-flight information, and to airways operations staff responsible for the provision of in-flight information. Supervises the collection, preparation, collation and dissemination of aeronautical information.

#### Job Content Factors

<b>Workers</b>	
FP: GE10-12y PSP3-4y(PPC) or FP: GE12y PSP3y(PPC)	IP: T1y E6y IP: T1y E5y
HC: RIC	RQ: P2 U2 V1
<b>Materials</b>	
SM: D1 P2	EQ:

*Functions*

MA: I1 A2 P2 D1 R2 M2 L2

PA: S2 W2 E1

SA: S2 L2 I1 B2 R3-4

*Context*

EC: M2 L1

TC: A1 I1 T2

SS: I0

SC: I0 (na)

LMS: 100 ( 0%SE)

ASIC: 54

**7002-Z****AIR TRANSPORT OPERATING  
SUPPORT OCCUPATIONS nec**

This residual group covers air transport operating support occupations not elsewhere classified in Unit Group 7002, e.g.

Aircraft Navigator

Navigation Instructor/Instructress, Aircraft

**7009 OTHER AIR TRANSPORT OPERATING OCCUPATIONS**

This residual unit group covers occupations concerned with providing assistance in connection with the operation of aircraft and airport facilities.

**Activities include** advising airline captain on operational engineering matters; and ensuring airworthiness of aircraft.

*Related Occupations*

Occupation 7191-A : Aircraft Loader

Occupation 4217-F : Security Officer, Airport Pre-boarding

Occupation 4251-G : Cabin Cleaner

Unit Group 4294 : Flight Attendants and Related Occupations

**7009-A****FLIGHT ENGINEER**

Maintains liaison between airline captain and engineering maintenance staff, and advises captain on operational engineering matters.

Inspects aircraft documents regarding operational status of aircraft. Completes cockpit preparation and external inspection to determine that aircraft is acceptable for flight. Operates aircraft engines and systems in accordance with captain's instructions, and keeps him/her informed of mechanical status and, in particular, abnormal trends or specific malfunctioning. Computes and controls aircraft performance in cruise flight. Manages fuel feed systems and computes fuel consumption. Monitors all other systems. Monitors communications to maintain awareness of altimetry and aircraft flight path. Diagnoses and assesses defects and malfunctions and records these in aircraft technical log. Maintains a flight log concerning operational data, periodical instrument readings and flight plan comparisons. Reads normal and emergency checklists and alternate procedures when required. Monitors correct action and response. Actions emergency procedures for aircraft engines and systems in co-ordination with pilots. Services aircraft and certifies its serviceability when ground staff are not available.

*Job Content Factors**Workers*

FP: GE10y PSP4y(T)

IP: T6m E5y

HC: RIC

RQ: S2 U1 D1 V1 A1

*Materials*

SM: D2 I2 P2 T1

EQ: P2 S1 M1 K2

*Functions*

MA: I2 A1 D2 R2 M1 L2

PA: P2 C1 S1 E2

SA: S1

*Context*

EC: T1 M2 L1 C09,13

TC: A2 I1 R2 T2

SS: 8

SC: I0 (na)

LMS: 700 ( 0%SE)

ASIC: 54

**7009-B****AIRWORTHINESS SURVEYOR**

Examines aircraft and service documents of aircraft equipment manufacturers to determine the need or otherwise for specialised engineering action to enable airworthiness certification to be approved.

Classifies related documents, drafts and assists in technical editing of airworthiness directives, formulates regulatory requirements and drafts relevant Air Navigation Order and Airworthiness Instructions.

May specialise in a particular aspect of aircraft engineering and be designated accordingly, e.g.

Sectional Airworthiness Surveyor, Aircraft Certification

Sectional Airworthiness Surveyor, Service Engineering

Sectional Airworthiness Surveyor, Structures

*Job Content Factors**Workers*

FP: GE12y PSP4y(T)

IP: E8y

HC: REC

RQ: S1 Q1 U1 V1 A1

*Materials*

SM: D2 I1 P2 T2

EQ: P1

*Functions*

MA: I1 A1 P1 D1 R2 M2 L1

PA: P1 S2 W2 E2

SA: S1 M1 R4

*Context*

EC: L1

TC: A1 I2

SS: 8

SC: I0 (na)

LMS: 200 ( 0%SE)

ASIC: 540

**7009-Z****AIR TRANSPORT OPERATING  
OCCUPATIONS nec**

This residual group covers occupations concerned with the support of air transport operating personnel not elsewhere classified in Minor Group 700, e.g.

Trainee Air Traffic Controller; Air Traffic

Controller-in-Training

Trainee Flight Service Officer

## MINOR GROUP 701

### WATER TRANSPORT OPERATING OCCUPATIONS

Water Transport Operating Occupations are classified in the following unit groups.

7010	Marine Superintendents and Surveyors
7011	Ship's Pilots and Deck Officers
7012	Boatswains
7013	Deckhands
7014	Marine Engine and Boiler-Room Occupations
7015	Trainee Occupations, Water Transport
7019	Other Water Transport Operating Occupations

#### *Related Occupations*

Occupation 2045-C	: Naval Architect
Minor Group 420	: Exclusively Military Occupations

### 7010 MARINE SUPERINTENDENTS AND SURVEYORS

This unit group covers occupations concerned with controlling, regulating and maintaining efficient standards of operation for water transport of various types.

**Entry Requirements** a Watchkeeping Certificate gained either through an apprenticeship in fitting and machining on heavy equipment in an approved workshop followed by additional coursework and sea service, or following satisfactory completion of a diploma in marine engineering, plus 7-8 years' relevant experience in the case of engineering occupations; a marine Master's Certificate plus 7-8 years' experience for non-engineering occupations.

**Activities include** conducting surveys of ships to ensure adequate safety standards are adhered to; and preparing estimates and forecasting trends with respect to the commercial operation of various types of vessels.

#### 7010-A MARINE SURVEYOR

Conducts surveys of ships to ensure the safety of the passengers and crew, and develops safety standards and procedures for marine survey work in relation to hulls, equipment and hazardous cargoes of Australian registered ships.

Conducts investigations into marine casualties and accidents, and provides technical advice to Courts of Marine Inquiry. Tests and inspects new equipment submitted for approval for Australian vessels. Surveys vessels for the issue of safety certificates, and for the safe handling, stowage and carriage of bulk cargoes including grain, petroleum, chemical and gas products, livestock and dangerous goods. Develops standards and procedures of marine survey work in relation to mobile oil rigs, submersibles, and air cushioned vessels. Measures ships for registration, and calculates tonnage. Makes inspections required by the Pollution of the Sea by Oil Act.

May be appointed to conduct examinations for masters and deck officers, including sight tests. May adjust magnetic compasses.

#### *Job Content Factors*

##### *Workers*

FP: GE12y PSP2-3y(PPC)	IP: T1y E10-11y
or FP: GE12y PSP4y(Dip)	IP: T1y E8y
HC: RSC	RQ: S1 U1 V1 A2

##### *Materials*

SM: D1 P2 T2	EQ: P1
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##### *Functions*

MA: I1 A1 P1 D1 R2 M2 L1	
PA: P1 S2 W2 B2 E1	SA: S1 B1 R3-4

##### *Context*

EC: T2 L1	TC: A1
SS: 8	SC: I0 (na)

LMS: 75 ( 0%SE)

ASIC: 6335

#### 7010-B MARINE ENGINEER SURVEYOR

Conducts machinery and hull surveys of ships to ensure they are constructed, equipped and maintained to the relevant safety standards, rules and regulations laid down by marine authorities.

Examines and approves design plans of ship's hulls and equipment; main propulsion diesel engines, boilers and turbines; auxiliary steam turbine and diesel engine driven electrical power generating plant and systems; refrigeration and air conditioning plant; and pumps and pumping systems for propulsion, cargo and hotel services. Specifies standards of construction, and witnesses tests of materials, inspections of ships' hulls and all machinery and equipment during construction to ensure standards are complied with. Conducts periodical surveys throughout the ship's life to ensure these standards are maintained. Investigates the causes of marine casualties, machinery and equipment failures, and boiler and other pressure vessel explosions. Witnesses tests and operation of all emergency and safety machinery and equipment. Measures ships for tonnage and surveys them for load line assignment.

May be appointed to examine marine engineer officers for certificates of competency.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE12y PSP4y(Dip) or FP: GE11-12y PSP6-7y(PPC) / (T) HC: RSC	IP: T1y E7y IP: T1y E8y RQ: S1 U1 V1 A2
<i>Materials</i>	
SM: D1 P2 T2	EQ: P1
<i>Functions</i>	
MA: I1 A1 P1 D1 R2 M2 L1 PA: P1 S2 W2 B2 E3	SA: S1 B2 R3-4
<i>Context</i>	
EC: T2 L1 SS: 9	TC: A1 SC: I0 (na)
LMS: 100 ( 0%SE)	ASIC: 6335

7010-C MARINE SUPERINTENDENT (DECK)

Acts as the shipowner's nautical adviser, preparing estimates and forecasting trends with respect to recruitment and viability of different types of vessel.

Performs duties as described under Master Title SUPERVISOR MANAGER. Is responsible for the employment of cadets and deck officers, the manning of the deck department and for promotion of masters and deck officers. Investigates collision and other damage and writes reports for insurance purposes. Evaluates reports from ship masters. Advises top management on the operations of vessels, in particular with reference to the deck department. Inspects vessels and makes recommendations on voyage repairs. Responsible for the assessment and buying of all navigational aids and equipment. Recommends design modifications for existing and future vessels. Represents the owner on various industrial and training committees. Advises management on the deck department operations of vessels.

May prepare budgets for training and recruitment. May write specifications for navigational aids. May initiate or write company standing orders and operations manuals for deck department.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE12y PSP2-3y(PPC) or FP: GE12y PSP4y(Dip) HC: RSC	IP: T1y E10-11y IP: T1y E8y RQ: S1 P2 Q2 U1 V1
<i>Materials</i>	
SM: D2 I2 P1 T2	EQ:
<i>Functions</i>	
MA: I1 A1 P1 D1 R2 M2 L1 PA: S2 W2 B2 E1	SA: S1 P1 M1 R2-4
<i>Context</i>	
EC: T2 L1 SS: I0	TC: A1 SC: I0 (na)
LMS: 30 ( 0%SE)	ASIC: 6336

7010-D MARINE ENGINEER SUPERINTENDENT

Is responsible for a number or fleet of ships, ensures maximum availability and reliability for commercial operation, prepares estimates, forecasts future trends and determines long range and immediate strategy.

Performs duties as described under Master Title SUPERVISOR MANAGER. Prepares budgets for the operational, survey and maintenance costs of ships' hulls, engine room department and cargo handling machinery and equipment. Is responsible for budgetary control. Arranges contracts and co-ordinates dry-dockings, surveys, maintenance and repairs. Organises contracts for the supply of consumables such as fuel, lubricants, refrigerants, spare parts, tools and the like for main propulsion and auxiliary machinery. Approves appointment of senior marine engineer officers to ships. Evaluates written and verbal reports from chief engineers, and extracts from the engine room log book entries. Solves the more complex operational and repair problems. Recommends design modifications for existing and future ships.

May write specifications for ships' hulls, machinery and equipment. May supervise the building of new ships on behalf of the owners.

<b>Job Content Factors</b>	
<i>Workers</i>	
FP: GE11-12y PSP6-7y(PPC) / (T) or FP: GE12y PSP4y(Dip) HC: RSC	IP: T1y E8y IP: T1y E7y RQ: S1 P2 Q2 U1 V1
<i>Materials</i>	
SM: D1 I2 P2 T2	EQ:
<i>Functions</i>	
MA: I1 A1 P1 D1 R2 M2 L1 PA: S2 W2 B2 E1	SA: S1 P1 M1 R3-4
<i>Context</i>	
EC: T2 L1 SS: I0	TC: A1 SC: I0 (na)
LMS: 30 ( 0%SE)	ASIC: 6336

7011 SHIP'S PILOTS AND DECK OFFICERS

This unit group covers occupations concerned with piloting, managing and operating inland waters and marine vessels.

**Entry Requirements** an appropriate marine Master's or Second Mate certificate plus up to 8 years' experience.

**Activities include** advising ships' masters of track to steer where special skills and knowledge are required; managing and operating inland waters and marine vessels of all categories; navigating; directing and supervising other personnel; and assuming responsibility for welfare and safety of passengers and cargo in hazardous waters.

### 7011-A PILOT, SHIP Marine Pilot

Advises ship's master of track to steer for safe passage into and out of harbour, strait, river and other confined or hazardous navigable waters where special skill and knowledge of area is required.

Embarks ship at harbour berth or at sea. Advises master on local marine matters such as navigational dangers, navigation marks and other aids to navigation, tidal and weather conditions, movements within port area, use of tugs, harbour rules, quarantine regulations and customs procedures. With master's concurrence, chooses safe track utilising aids to navigation for safe passage, and gives steering and speed orders. Gives instructions to tugs to assist in berthing or departure operation. Uses UHF and VHF for ship, tug and shore communications.

#### Job Content Factors

##### Workers

FP: GE12y PSP2-4y(PPC) IP: T1y E9-11y  
or FP: GE12y PSP4y(Dip) IP: T1y E7-8y  
HC: RI RQ: S1 P2 U2 D2 V1 A2

##### Materials

SM: D1 T1 EQ: P2 V1

##### Functions

MA: I2 P1 D2 R2 M2 L2  
PA: W1 B2 E1 SA: S2 P2 M2

##### Context

EC: L1 C12 TC: A1 I1 T2  
SS: I0 SC: I1 (na)

LMS: 260 ( 0%SE)

ASIC: 53

### 7011-B MASTER, SHIP Merchant Ship's Captain; Ship's Captain; Ship's Master

Commands vessels used to transport passengers and cargo on oceans and coastal waters.

Directs, manages and co-ordinates work of all departments on board vessel. Is responsible for safety of vessel, its equipment, cargo, passengers and crew at all times. Is responsible for navigation, berthing and unberthing of vessel. Supervises mates in the performance of their watchkeeping, cargo and ballasting duties. Represents owners of vessel in all matters and is responsible to them for the safe, efficient and economic operation of vessel. Ensures compliance with local, national and international regulations pertaining to the safety of life at sea and protection of the marine environment.

May communicate with ship and shore stations using radiotelephone. May provide medical care. May embark pilot to obtain advice regarding local navigation where special skill and knowledge of area is required. On small vessels where personnel are few, may share many of duties normally performed by junior officers, in particular those assigned to mates. May exercise disciplinary action on any person on board. May hold qualifications endorsed for special operations, e.g. for the command of tankers, or limited to ships not exceeding a certain size, or for particular geographical areas.

#### Job Content Factors

##### Workers

FP: GE12y PSP2-4y(PPC) IP: T1y E8-9y  
or FP: GE12y PSP4y(Dip) IP: T1y E6y  
HC: RI RQ: S1 U2 D2 V1 A2

#### Materials

SM: D1 P2 T2 EQ: P2 V1

#### Functions

MA: I2 P2 D2 R2 M2 L2  
PA: C2 S2 W2 E1 SA: S2 T1 R3-4

#### Context

EC: T1 M2 L1 TC: A1 I1 T2  
SS: 7 SC: I0 (na)

LMS: 200 ( 0%SE)

ASIC: 53

### 7011-C MATE, SHIP Ship's Mate

Is responsible for the navigation, safety and safe operation of ocean and coastal water ships at sea, in port and at anchor, supervising and co-ordinating the activities of the deck crew and controlling cargo stowage, loading and unloading operations.

Stands bridge watch for specific period at sea. Determines position of ship using a sextant, compass and other navigational aids. Uses navigational aids such as radar, decca, omega, satellite navigator, parallel rules and echo sounder and interprets data therefrom. Supervises steering and keeps ship on safe track. Records progress of ship and daily activities of deck department. Observes and records weather and sea state, including temperature and barometric pressure; encodes data for radio transmission to shore stations; decodes data from ship and shore stations; uses data to determine safe passage for ship. Maintains a safe lookout and ensures continued protection of the marine environment. Keeps an anchor and port watch. Plans and controls the stowage and discharge of solid and liquid cargoes. Supervises loading, unloading and ballasting operations. Supervises the state of readiness of fire-fighting and life-saving equipment. Directs the activities of the deck crew for navigational support duties, berthing and unberthing, maintenance, cleaning and painting of the superstructure, and repair and replacement of defective deck gear and equipment. Supervises performance of safety drills.

May communicate with shore station and other ships using radiotelephone, signal lamp or code flags. May provide medical care. May assume command if the master becomes incapacitated. May be designated according to degree of responsibility and certificate of competency held, e.g.

Chief Mate Second Mate  
Third Mate

#### Job Content Factors

##### Workers

FP: GE12y PSP1-3y(PPC) IP: T1y E2-9y  
or FP: GE12y PSP4y(Dip) IP: T6m E0-6y  
HC: RI RQ: S1 P2 U2 D2 V1

##### Materials

SM: D2 P2 T1 EQ: P2 V1

##### Functions

MA: I1 A2 P1 D2 R2 M2 L2  
PA: P2 W1 B2 E2 SA: S2 L2 M2 R3

##### Context

EC: T1 L1 TC: I1  
SS: 8 SC: 9 (na)

LMS: 600 ( 0%SE)

ASIC: 53

### 7011-D MASTER, TUG Tug Master

Commands tugs to tow ships and barges in harbours and inland waters.

Meets vessel requiring assistance and connects tow rope. Pulls or pushes vessel to required position. Controls the tug and tow when on coastal and ocean passage. Navigates tug as for deck officer on sea passage. Orders, either directly or by loudspeaker, deckhands to connect and release the towline. Keeps continuous watch on towline for safety of both tug and tow. Is responsible for the safety of the tug and barges. Personally steers and controls engine movements. Uses radiotelephone to report position and receive orders. Undertakes salvage work and receives remuneration according to the value of the vessel and goods salvaged, and the degree of risks involved. Usually holds certificate of competency limited to specified geographical area.

May assist in the berthing and unberthing of vessels by pulling or pushing under the direction of the ship's master and pilot.

#### Job Content Factors

##### Workers

FP: GE12y PSP1-3y(PPC)	IP: T1y E4-7y
or FP: GE12y PSP4y(Dip)	IP: T1y E0-3y
HC: R1	RQ: S1 P2 Q2 V1

##### Materials

SM: D1 T2	EQ: V1
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##### Functions

MA: P2 D2 R3 M2 L2	
PA: C1 W1 E2	SA: S2 B2 R4

##### Context

EC: L2	TC: A1 I1 T2
SS: 7	SC: 9 (vy)

LMS: 100 ( 0%SE)

ASIC: 53

#### 7011-E

#### MASTER, FERRY BOAT/PASSENGER LAUNCH/RIVER BOAT Ferry Captain; Ferry Master; Launch Master

Commands boats used to transport passengers, motor vehicles or cargo across rivers and within harbours and inland and

sheltered coastal waters.

Is responsible for navigation, manoeuvring, steering, berthing and unberthing of ferryboat, passenger launch or riverboat. Signals to crew to raise or lower loading ramp or gangway. Operates engines by remote control or signals requirements to marine engine crew. Determines speed and track based on local knowledge. Steers or gives directions to helmspersons. Checks safety equipment is maintained in good order and ready for use. Directs crew to secure vessel at terminals. Usually holds certificate of competency limited to specified geographical area.

May be the only crew member and will act as both helmsman/woman and engineer in small craft.

#### Job Content Factors

##### Workers

FP: GE11-12y PSP1-3y(PPC)	IP: T6-12m E3-5y
or FP: GE12y PSP4y(Dip)	IP: T1y E0-3y
HC: R1	RQ: S1 V1

##### Materials

SM: D2 T1	EQ: V1
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##### Functions

MA: A2 P2 D3 R3 M3 L2	
PA: C1 S2 W2 E2	SA: S2 I2 B2 R4

##### Context

EC: M2 L2	TC: A1 I1 T2
SS: 2	SC: 7 (na)

LMS: NA ( 0%SE)

ASIC: 53

#### 7011-Z

#### SHIP'S PILOTS AND DECK OFFICERS nec

This residual group covers ship's pilots and deck officers not elsewhere classified in Unit Group 7011, e.g.

Hovercraft Operator	Hydrofoil Operator
Lighter Master	Master, Dredge
Navigating Officer, Ship	Quartermaster, Ship

## 7012 BOATSWAINS

This unit group covers occupations concerned with supervising and co-ordinating activities of deck crew employed in performing maintenance duties aboard ship.

**Entry Requirements** Year 8 plus 3-5 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### 7012-A

#### BOATSWAIN Bosun

Supervises and co-ordinates activities of deck crew employed in performing maintenance duties aboard ship.

Performs duties as described under SUPERVISOR/FOREMAN/WOMAN. Supervises, under direction of deck officers, deck crew washing decks and superstructure paintwork; chipping, scraping and painting decks, sides and superstructure of ship; and splicing fibre and synthetic ropes and wires. Supervises the repair and replacement of defective cargo gear, life-saving and fire-fighting appliances. Organises deck crew into dayworkers and watchkeepers.

#### Job Content Factors

##### Workers

FP: GE8y	IP: T2-6m E3-5y
HC: ERC	RQ: P2

##### Materials

SM: P2 T1	EQ: N1
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##### Functions

MA: P2 D3 R3 M3 L2	
PA: H2 W1 E3	SA: S1 B1 R3-4

##### Context

EC: T1 L3	TC: A1 I1 T2
SS: 9	SC: 9 (na)

LMS: 270 ( 0%SE)

ASIC: 53

### 7015-A CADET DECK OFFICER Deck Officer, Cadet

Receives instruction and training in preparation for entry to the occupation of deck officer.

Under supervision and instruction, progressively performs the duties undertaken by the deck officers.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y	IP:
HC: RI	RQ: S1 D2 V1
<i>Materials</i>	
SM: D2 T1	EQ: P2 V1
<i>Functions</i>	
MA: I2 A2 D2 R2 M2 L2	
PA: C2 W1 B2 E2	SA: S2
<i>Context</i>	
EC: T1 M2 L1	TC: A1 I1 T2
SS: 1	SC: 3 (na)
LMS: 120 ( 0%SE)	ASIC: 53

### 7015-B CADET MARINE ENGINEER

Receives instruction and training in preparation for entry to the occupation of marine engineer officer.

Under supervision and instruction, progressively performs the duties undertaken by 7019-A MARINE ENGINEER OFFICER.

#### Job Content Factors

<i>Workers</i>	
FP: GE12y	IP:
HC: RIC	RQ: U1 D2 A2
<i>Materials</i>	
SM: D2 T1	EQ: P1 S2 M2 V1
<i>Functions</i>	
MA: D3 R2 M2 L2	
PA: P1 W1 E3	SA: S2
<i>Context</i>	
EC: T1 L1 C01,02,09	TC: A1 I1
SS: 1	SC: 3 (na)
LMS: 300 ( 0%SE)	ASIC: 53

## 7019 OTHER WATER TRANSPORT OPERATING OCCUPATIONS

This residual unit group covers occupations in water transport not elsewhere classified in Minor Group 701.

**Activities include** preparing main propulsion and auxiliary machinery; testing all machinery and systems for correct operation; setting and testing automatic control and alarm systems; and repairing and maintaining machinery and equipment.

### 7019-A MARINE ENGINEER OFFICER Engine Officer, Ship; Marine Engineer; Merchant Service Engineer Officer; Motor Vessel Engineer Officer; Ship's Engineer Officer

Is responsible for the propulsion and other machinery of ocean, coastal and harbour vessels, and for the safe and efficient operation and maintenance of all the machinery and equipment in the ship's engine room department.

Stands engine room watches at sea and in port on a rostered basis. Prepares main propulsion and auxiliary machinery such as boilers, steam turbines, diesel engines, electrical power generators, steering gear and engine cooling water systems for operation. Tests all machinery and systems for correct operation and sets and tests automatic control and alarm systems. Manoeuvres main propulsion engine in response to bridge commands and operates auxiliary machinery as necessary. Monitors machinery operation and records operating conditions. Recognises off-limit performance and diagnoses faults. Repairs and maintains machinery and equipment using hand tools, measuring instruments and lifting devices. Attends to electrical plant as required. Operates, maintains and repairs auxiliary and domestic systems such as fuel, oil, fresh water, refrigeration, air conditioning and fire main. Records use of consumable stores and spare parts and tools.

May service electrical and refrigeration machinery and appliances. May serve as chief engineer on small ships and fishing vessels. May be designated according to degree of responsibility and certificate of competency held, e.g.

Junior Engineer, Marine      Watchkeeper Engineer

May perform duties on a particular type of vessel and be designated accordingly, e.g.

Barge Engineer Officer      Tow Boat Engineer Officer

May eventually assume responsibility for engine room department in larger vessels including planning and control, and be designated accordingly,

Chief Marine Engineer

#### Job Content Factors

<i>Workers</i>	
FP: GE11-12y PSP6-7y(PPC) / (T) or FP: GE12y PSP4y(Dip)	IP: T1y IP: T1y
HC: RIC	RQ: S1 U2 D2 A2
<i>Materials</i>	
SM: D2 T1	EQ: P1 S2 M1 V1
<i>Functions</i>	
MA: P2 D2 R2 M2 L2	
PA: P1 S2 W1 E3	SA: S2 M2 R4
<i>Context</i>	
EC: T1 L1 C01,20,90	TC: A1 I1 T2
SS: 3	SC: 5 (na)
LMS: 2000 ( 0%SE)	ASIC: 53

### 7019-Z WATER TRANSPORT OPERATING OCCUPATIONS nec

This residual group covers water transport occupations not elsewhere classified in Minor Group 701, e.g.

Cable Ferry Operator      Harbour Master  
Marine Education Officer      Ship Repair Manager  
Lock Master (Water Transport)

MINOR GROUP 702  
RAILWAY TRANSPORT OPERATING OCCUPATIONS

Railway Transport Operating Occupations are classified in the following unit groups.

- 7020 Supervisors, Railway Transport
- 7021 Locomotive Driving Occupations
- 7029 Other Railway Transport Operating Occupations

7020 SUPERVISORS, RAILWAY TRANSPORT

This unit group covers occupations concerned with supervising the activities of personnel at railway stations.

**Entry Requirements** Year 9 plus 3-10 years' experience.

**Activities include** supervising the activities of employees at railway stations and authorising the movement of trains through the station; assisting the station master/mistress in the operation of larger railway stations; supervising the operation of a railway marshalling or stabling yard.

*Related Occupation*

Occupation 4030-Z : Freight Centre Manager

7020-A STATION MASTER/MISTRESS,  
RAILWAY

Controls and supervises the activities of employees at railway stations and authorises the movement of trains through the station.

Supervises and controls the duties of clerical and administrative staff attached to the station. Oversees train running times and any associated timetable changes. Ensures staff availability and efficient operation of staff for passenger comfort. Authorises and initiates station maintenance; investigates complaints; supervises security.

*Job Content Factors*

<i>Workers</i>	
FP: GE9y	IP: T1m E10y
HC: ECS	RQ: U2 D1 V2
<i>Materials</i>	
SM: D2 P2	EQ:
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: S2 W2 E2	SA: S2 I2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 I1
SS: 6	SC: 8 (na)
LMS: 3500 ( 0%SE)	
ASIC: 52	

7020-B STATION OFFICER, RAILWAY  
Assistant Station Master/Mistress; Night  
Officer, Rail Transport

Assists station master/mistress in the operation of larger railway stations.

Supervises and controls station staff and various aspects of administrative work as directed. Assists in overseeing train operating times, staff availability, efficient staff operation, station maintenance and investigation of complaints.

May relieve station master/mistress for short periods.

*Job Content Factors*

<i>Workers</i>	
FP: GE9y	IP: T1m E3y
HC: ECS	RQ: P1 U2 D1 V2
<i>Materials</i>	
SM: P2	EQ:
<i>Functions</i>	
MA: D3 R3 M3 L3	
PA: S2 W2 E2	SA: S2 L2 I2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 I1
SS: 3	SC: 5 (na)
LMS: NA ( 0%SE)	
ASIC: 52	

7020-C YARD MASTER/MISTRESS, RAILWAY  
Yard Controller, Railway; Yard Foreman/  
woman, Railway

Supervises the operation of a railway marshalling or stabling yard.

Ensures the movement of rolling stock to maintain efficient rail service as required. Arranges for withdrawal and replacement of rolling stock for maintenance. Supervises staff involved in yard operations. Liaises with station masters/mistresses and freight managers. Is responsible for drivers engaged in yard movements and shunting, and for freight wagon weighing operations. Allocates shunting staff.

May delegate duties and exercise control through assistant yard master/mistress. May be responsible for a particular section of a yard and be designated accordingly, e.g.

Yard Foreman/woman, Freight

#### Job Content Factors

<i>Workers</i>	
FP: GE9y	IP: T1m E10y
HC: SCE	RQ: D2 V2
<i>Materials</i>	
SM: P1	EQ:
<i>Functions</i>	
MA: P1 D2 R2 M3 L2	
PA: S2 W2 E2	SA: L2 B1 R3-4

#### Context

EC: L1	TC: 11
SS: 7	SC: 7 (na)

LMS: 400 ( 0%SE)

ASIC: 52

### 7020-Z SUPERVISORS, RAILWAY TRANSPORT nec

This residual group covers railway transport supervisors not elsewhere classified in Unit Group 7020, e.g.

Assistant Yard Master/Mistress

## 7021 LOCOMOTIVE DRIVING OCCUPATIONS

This unit group covers occupations concerned with driving locomotives and passenger trains.

**Entry Requirements** Year 8-10 plus, in some cases, 3-5 years' relevant experience.

**Activities include** driving diesel-electric, electric and diesel hydraulic locomotives, and electric or diesel suburban-type passenger trains; assisting the driver in the driving duties of a locomotive.

### 7021-A LOCOMOTIVE ENGINEMAN/WOMAN Engine Driver, Railway; Locomotive Driver; Locomotive Engine Driver; Motorman/ woman, Railway; Railway Engine Driver

Drives diesel-electric, electric and diesel hydraulic locomotives, and electric or diesel suburban-type passenger trains.

Checks locomotive to ensure readiness and that safety requirements are observed. Checks dispatch orders and consults with train guard and, where applicable, locomotive assistant. Establishes correct time to ensure adherence to timetable. Commences journey; services required stations by stopping for passengers or freight as appropriate; observes signal directions. Ensures train conforms with signal indications (fixed and hand), and track and vehicle speeds and characteristics. Returns carriages or trucks to marshalling yard. Returns engine to designated location for maintenance, refuelling or further use. Reports irregularities concerning engine, rolling stock or other aspects.

May elect to be employed purely on suburban type work. May specialise in driving a particular locomotive or train and be designated accordingly, e.g.

Electric Train Driver	Locomotive Driver, Diesel
Rail Car Driver	Rail Motor Driver
Shunting Engine Driver	Locomotive Driver, Freight
Steam Engine Driver	Locomotive Driver, Passenger
Diesel-electric Locomotive Driver	
Sugar Train Driver; Sugar Locomotive Driver	

#### Job Content Factors

<i>Workers</i>	
FP: GE8-10y	IP: T1-3m E3-5y
HC: R	RQ: V1
<i>Materials</i>	
SM: T1	EQ: V1
<i>Functions</i>	
MA: P2 R4 L3	
PA: C1 S1 E2	SA: S2 B2 R4

#### Context

EC: T1 L1	TC: A1 I1 R2 T2
SS: 2	SC: 5 (na)

LMS: 7000 ( 0%SE)

ASIC: 52

### 7021-B LOCOMOTIVE ASSISTANT Assistant Engine Driver; Assistant Engineman/woman; Assistant Locomotive Driver; Fireman/woman, Railway; Locomotive Fireman/woman; Trainee Engine Driver; Trainee Engineman/woman

Assists the locomotive engineman/woman in the driving duties of a diesel-electric, electric or diesel hydraulic locomotive.

Assists locomotive engineman/woman to verify safety of engine prior to use. Starts engines; observes gauges and indicators to check readiness for use; observes signals and preparedness of train to begin journey from opposite side of the train to driver. Advises engine driver of hazards or obstacles; observes signals when shunting; advises on signals of shunters; continuously monitors indicator gauges of engine.

May operate points when shunting. May be responsible for fuelling arrangements. May be designated according to type of engine assigned to, e.g.

Fireman/woman, Diesel Engine
Fireman/woman, Freight Train
Fireman/woman, Passenger Train

#### Job Content Factors

<i>Workers</i>	
FP: GE8-10y	IP: T2-4m
HC: R1	RQ: V1
<i>Materials</i>	
SM: T1	EQ: V1
<i>Functions</i>	
MA: D3 R4 L3	
PA: C1 S1 E2	SA: S2
<i>Context</i>	
EC: T1 L1	TC: A1 I1 R2 T2
SS: 2	SC: 5 (na)

LMS: 5000 ( 0%SE)

ASIC: 52

7021-Z LOCOMOTIVE DRIVING  
OCCUPATIONS nec

elsewhere classified in Unit Group 7021, e.g.

This residual group covers locomotive driving occupations not Locomotive/Suburban Train Driving Instructor/Instructress

7029 OTHER RAILWAY TRANSPORT OPERATING OCCUPATIONS

This residual unit group covers occupations concerned with providing assistance in the operation of locomotives and trains.

**Activities include** controlling the operation of a train by signalling or conversing with driver and station staff; operating signal equipment to control movement of trains over a specific section of track; assisting with the movement of trucks and carriages in the marshalling yards or siding areas; and co-ordinating railway traffic on a specified section of railway system.

*Related Occupations*

- Occupation 4295-C : Railway Conductor, Sleeping Car
- Occupation 4295-B : Railway Porter, Luggage
- Occupation 4299-Z : Station Assistant (Railway)

7029-A GUARD, RAILWAY

Controls operation of a train in the absence of a conductor by signalling or conversing with driver and station staff.

Checks train for readiness to operate and safety requirements. Signals driver to commence journey when appropriate and to recommence journey after station stops. Watches for irregularities when train is moving. Notifies dispatcher at conclusion of journey.

May work with a particular type of train, observing unloading of freight, truck detaching and coupling, or passenger activities, and be designated accordingly, e.g.

- Guard, Freight Train
- Guard, Passenger Train
- Guard, Suburban Train

*Job Content Factors*

<i>Workers</i>	
FP: GE9y	IP: T3-6m E5y
HC: R	RQ: D1 V1 A2
<i>Materials</i>	
SM: P2 T1	EQ: W2
<i>Functions</i>	
MA: P2 D3 R4 L3	
PA: S2 W2 E2	SA: S2
<i>Context</i>	
EC: T1 L1	TC: A1 I1 R2
SS: 4	SC: 4 (na)
LMS: 4000 ( 0%SE)	
ASIC: 52	

7029-B SIGNALMAN/WOMAN, RAILWAY

Operates signal equipment to control movement of trains over a specific section of track.

Reads movement orders, timetables etc. to become familiar with train movements over section under control. Receives telephone, radio or telegraph advice of late movements and alterations. Regulates switching gear to hold or move trains. Observes electric indicator board at busy suburban locations to ascertain location of trains, and acts accordingly. Regulates shunting movements at sidings or at marshalling yard entrances.

May control location within marshalling yards and supervise shunting operations.

*Job Content Factors*

<i>Workers</i>	
FP: GE9y	IP: T4m E6m
HC: RCI	RQ: V1
<i>Materials</i>	
SM: D1 T1	EQ: N1
<i>Functions</i>	
MA: P2 D2 R3 L3	
PA: U1 S2 W2 E2	SA: S2
<i>Context</i>	
EC: L1	TC: A1 I1 R2
SS: 3	SC: 4 (na)
LMS: 2600 ( 0%SE)	
ASIC: 52	

7029-C SHUNTER, RAILWAY  
Yard Assistant, Railway

Assists with the movement of trucks and carriages in the marshalling yards or siding areas to enable assembly or division of trains.

Uncouples trucks as required: moves rail points to change direction of trucks, freight cars or carriages; signals engine driver by moving arms or waving lamp to move uncoupled trucks, freight cars or carriages; signals for return of train without uncoupled trucks and repeats operation to enable composition of the train to be changed. Signals engine driver to move to loaded or required trucks, freight cars or carriages and couples these to engine.

May keep record of number, origin, destination and content of cars and trucks switched, and be designated accordingly, Number Taker, Railway

*Job Content Factors*

<i>Workers</i>	
FP: GE9y	IP: T3m E6m
HC: RC	RQ: D2 V1
<i>Materials</i>	
SM: D1 T1	EQ:
<i>Functions</i>	
MA: D3 R4 L3	
PA: H2 W2 E2	SA: S1

*Context*

EC: L2 C09  
SS: 2

TC: A1 I1 R2  
SC: 3 (na)

LMS: 3000 ( 0%SE)

ASIC: 52

**7029-D TRAIN CONTROLLER**

Co-ordinates railway traffic on specified section of railway system.

Is responsible for: co-ordinating the safe and efficient progress of all movements of railway traffic over defined tracks, in accordance with the prescribed safe working requirements and general instruction applicable to that track and location, which may include a centralised traffic control unit that electrically activates switches, signals and/or coloured lights; making any adjustments to scheduled services, locomotive power and manpower, to meet demands of changed circumstances; charting train movements on graph to estimate arrival times at specified points; recording train arrival and departure times at specified points; maintaining message register; implementing emergency procedures and services in cases of derailment and other emergency situations; keeping constantly and closely informed regarding the location and progress of all track users.

May operate teletypewriter to transmit messages to freight offices or other points along line. May be designated according to type of transportation system monitored, e.g.

Freight Traffic Controller

*Job Content Factors**Workers*

FP: GE9y  
HC: RC

IP: T2m E5-7y  
RQ: V1

*Materials*

SM: T1

EQ: K2

*Functions*

MA: I1 A2 P2 D2 R2 M3 L3

PA: U2 S1 W2 E1

SA: A1 S2 M2

*Context*

EC: L1  
SS: 6

TC: A1 I1 T2  
SC: 7 (na)

LMS: 250 ( 0%SE)

ASIC: 52

**7029-E****TRAIN EXAMINER**

Inspects freight cars in railway yards, terminals or stations to ensure adherence to rules and regulations governing handling and distribution.

Examines empty freight wagons and carriages for condition and correct classification. Directs removal of defective wagons and cars from service for repair. Inspects handling and servicing of wagons containing perishable freight to ensure adherence to regulations. Expedites return to service of cars carrying freight. Checks areas for empty foreign wagons and authorises movement to prevent additional per diem charges. Reviews conductors' siding reports for correct compilation and submission. Prepares weekly reports on handling of cars and perishable freight. Recommends action to correct irregularities.

*Job Content Factors**Workers*

FP: GE9y  
HC: REC

IP: T7m E2-3y  
RQ: S1 V1 A1

*Materials*

SM: D1 P2 T2

EQ: S2 M2

*Functions*

MA: A1 P1 D2 R3 M3 L3

PA: U2 W1 B2 E3

SA: S1 B1 R3-4

*Context*

EC: L4  
SS: 3

TC: A1 I1  
SC: 3 (na)

LMS: NA ( 0%SE)

ASIC: 5200

**7029-Z****RAILWAY TRANSPORT OPERATING OCCUPATIONS nec**

This residual group covers railway transport operating support occupations not elsewhere classified in Minor Group 702, e.g.

Railway Barrier Supervisor

Railway Gatekeeper

Railway Platform Supervisor

Railway Pointsman/woman; Railway Switchman/woman

Railway Turntable Hand

Railway Officer, Rail Transport

MINOR GROUP 703  
ROAD TRANSPORT OPERATING OCCUPATIONS

Road Transport Operating Occupations are classified in the following unit groups.

- 7030 Bus, Tram and Truck Drivers
- 7031 Automobile Drivers
- 7039 Other Road Transport Operating Occupations

Related Occupation

Occupation 4030-B : Depot Master/Mistress, Road Transport

7030 BUS, TRAM AND TRUCK DRIVERS

This unit group covers occupations concerned with driving buses, trams and trucks to transport passengers and freight.

**Entry Requirements** possession of a driving licence in the case of bus and truck drivers, and 2-3 months' experience as a conductor in the case of tram drivers.

**Activities include** operating a motor powered bus over established or special routes to transport persons; operating an electric powered tram car to transport passengers on an urban tramway system; and operating, in order to transport goods and materials, motor trucks that do not require a specially endorsed licence, and heavy single unit and semi-trailer motor vehicles which require such a licence.

7030-A BUS DRIVER  
Motor Bus Driver

Operates a motor powered bus over established or special routes to transport persons.

Starts, manoeuvres, drives and stops vehicle as required. Controls lighting, heating and ventilation for comfort of passengers. Opens and shuts doors before and after passengers board or alight. Complies with traffic regulations and rules, and urban bus regulations.

May take money for fares and give change and tickets. May operate a particular class of bus and be designated accordingly, e.g.

- Articulated Bus Driver
- School Bus Driver
- Coach Driver
- Tourist Bus Driver

Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: T1-3m
HC: RC	RQ: L1 S1 D2
<i>Materials</i>	
SM: D2 P2 T1	EQ: V1
<i>Functions</i>	
MA: D3 L3	SA: I1
PA: C1 S1 E2	
<i>Context</i>	
EC: T2 L1	TC: A1 I1 R2 T2
SS: 2	SC: 3 (na)
LMS: NA ( 0%SE)	ASIC: 51

7030-B TRAM DRIVER  
Tramway Motorman/woman

Operates an electric powered tram car as the driver of a two person team to transport passengers on an urban tramway system.

Accepts responsibility for tram from depot master/mistress; moves vehicle along rails by manipulating pedals and levers to control power and brakes; stops at designated points and at allotted points when person requires transport. Changes controls and power supply pole at terminus to enable vehicle to be driven from other end for return journey.

May operate vehicle with doors, and open and shut these before and after passengers board or alight.

Job Content Factors

<i>Workers</i>	
FP: GE10y	IP: T2w E2-3m
HC: R	RQ: S1 D1 V1
<i>Materials</i>	
SM: T1	EQ: V1
<i>Functions</i>	
MA: D3 R4 L3	SA: S2
PA: C1 S1 E2	
<i>Context</i>	
EC: L1	TC: A1 I1 R2 T2
SS: 2	SC: 3 (na)
LMS: NA ( 0%SE)	ASIC: 51

7030-C TRUCK DRIVER, LIGHT

Operates motor trucks that do not require a specially endorsed licence to transport goods and materials.

Manoeuvres vehicles to load or unload, and assists with loading or unloading operations to ensure goods are correctly stowed. Verifies loading document; starts, drives and manoeuvres vehicle to destination; arranges unloading; obtains certification of delivery. Reports and acts on vehicle maintenance needs. Complies with transport regulation requirements.

May receive payment for delivery or arrange for account. May be designated according to type of vehicle driven, e.g.

Taxi Truck Driver      Tow Truck Driver  
Van Driver

#### Job Content Factors

##### Workers

FP: GE8y      IP: T1-2w  
HC: R      RQ: L1 V1 A2

##### Materials

SM: T1      EQ: V1

##### Functions

MA: D3 R4 M3 L3  
PA: C1 H2 S1 W2 E2      SA: I1

##### Context

EC: M1 L3      TC: A1 I2 R2 T2  
SS: 2      SC: 3 (na)

LMS: NA (10%SE)

ASIC: 51

### 7030-D TRUCK DRIVER, HEAVY

Operates a heavy single unit motor vehicle requiring a specially endorsed licence to transport goods and materials.

Performs duties similar to those of 7030-C TRUCK DRIVER, LIGHT.

May operate a special type of vehicle or one fitted with special equipment and be designated accordingly, e.g.

Concrete Mixer Driver      Float Driver  
Log Hauler      Milk Tanker Operator  
Tanker Driver      Tip Truck Driver  
Water Cart Driver; Water Truck Driver; Water Truck Operator

#### Job Content Factors

##### Workers

FP: GE8y      IP: T1m  
HC: R      RQ: L1 S1 V1 A2

#### Materials

SM: T1      EQ: V1

#### Functions

MA: D3 R4 L3  
PA: C1 H2 S1 E3      SA: A1 I2

#### Context

EC: T2 M2 L3      TC: A1 I1 T2  
SS: 2      SC: 3 (na)

LMS: NA (40%SE)

ASIC: 51

### 7030-E TRUCK DRIVER, ARTICULATED Semi-trailer Driver

Operates a heavy semi-trailer motor vehicle requiring a specially endorsed licence to transport goods and materials.

Performs duties similar to those of 7030-C TRUCK DRIVER, LIGHT, specialising in long bodied articulated vehicles.

May operate a special type of semi-trailer vehicle and be designated accordingly, e.g.

Road Freight Driver      Road Train Driver  
Stock Transport Driver

#### Job Content Factors

##### Workers

FP: GE8y      IP: T1-3m  
HC: R      RQ: L1 S1 V1 A2

#### Materials

SM: T1      EQ: V1

#### Functions

MA: D3 R4 L3  
PA: C1 H2 S1 E3      SA: A1 I2

#### Context

EC: T2 M2 L3      TC: A1 I1 T2  
SS: 2      SC: 3 (na)

LMS: NA (10%SE)

ASIC: 51

### 7030-Z BUS, TRAM AND TRUCK DRIVERS nec

This residual group covers bus, tram and truck drivers not elsewhere classified in Unit Group 7030.

## 7031 AUTOMOBILE DRIVERS

This unit group covers occupations concerned with operating an automobile to transport passengers.

**Entry Requirements** possession of a car driver's licence plus 6-12 months' experience in some cases.

**Activities include** operating an automobile for an individual, business, public, government or other organisation for a set wage to transport employer or other personnel at will; and operating a taxicab or hire car to transport persons for a fee.

### 7031-A CHAUFFEUR/CHAUFFEUSE Driver, Car

Operates an automobile for an individual, business, public, government or other organisation for a set wage to transport employer, personnel or visitors at will.

Starts, manoeuvres, drives and stops vehicle to complete journey. Meets passengers at appointed venues and conveys them to destination. Collects and distributes parcels or other mail as required. Services and cleans vehicles as necessary, and arranges for repair and maintenance.

May perform assorted errands. May make extended overnight trips and work irregular hours. May be employed by select businesses to park customers' vehicles and retrieve them. May be designated by type of employer, e.g.

Chauffeur/Chauffeuse, Company

Chauffeur/Chauffeuse, Funerals; Hearse Driver

Chauffeur/Chauffeuse, Private

**Job Content Factors**

<b>Workers</b>	
FP: GE10-12y	IP: E1y
HC: R	RQ: L1 D1 V1 A1
<b>Materials</b>	
SM: P2 T1	EQ: S2 V1
<b>Functions</b>	
MA: D3 R4 L3	
PA: C1 H2 S1 E1	SA: A2 I1
<b>Context</b>	
EC: T1 L1	TC: A1 I1 T2
SS: 2	SC: 3 (na)
LMS: NA (0%SE)	ASIC: 51

**7031-B HIRE CAR DRIVER**  
**Hire Car Operator**

Operates a hire car to transport persons for a fee in accordance with transport regulations.

Meets passenger(s) at designated location in response to direction from hire car control centre or other predetermined arrangement. Transports passenger(s) to desired destination.

May engage taximeter at commencement of journey and collect fare and give change at conclusion of journey. May receive direction from radio control centre of hire car company, report engagement to radio dispatcher to clear commitment when request is channelled through this medium, and record availability to radio dispatcher at conclusion of journey. May handle luggage as required.

**Job Content Factors**

<b>Workers</b>	
FP: GE10-11y	IP: E6m
HC: R	RQ: L1 S1 D2 V1 A2
<b>Materials</b>	
SM: P2 T1	EQ: V1

**Functions**

<b>MA: D3 R4 L3</b>	
<b>PA: C1 H2 S1 W2 E1</b>	<b>SA: A2 I1</b>
<b>Context</b>	
<b>EC: T2 L1</b>	<b>TC: A1 I1 R2</b>
<b>SS: 2</b>	<b>SC: 3 (na)</b>
<b>LMS: NA (20%SE)</b>	<b>ASIC: 51</b>

**7031-C TAXI DRIVER**  
**Cab Driver**

Operates a taxicab to transport persons for a fee in accordance with transport regulations.

Meets passenger(s) at designated street location or while moving along street, or in response to telephone request from radio control centre of taxi company. Engages taximeter at commencement of journey. Reports engagement to radio dispatcher to clear commitment when request is channelled through this medium. Transports passenger(s) to desired destination. Collects fare and gives change at conclusion of journey. Records availability to radio dispatcher.

May handle luggage as required.

**Job Content Factors**

<b>Workers</b>	
FP: GE8y	IP: T1-2w
HC: R	RQ: L1 S1 V1 A2
<b>Materials</b>	
SM: D2 P2 T1	EQ: V1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: C1 H2 S1 E2	SA: I1
<b>Context</b>	
EC: L1	TC: A1 I1 R2
SS: 2	SC: 3 (na)
LMS: NA (30%SE)	ASIC: 51

## 7039 OTHER ROAD TRANSPORT OPERATING OCCUPATIONS

This residual unit group covers occupations concerned with operating vehicles, with supervisory and administrative functions related to road transport activities, and with instructing in the theory and application of driving skills.

**Activities include** driving motor vehicles in order to perform courier or messenger duties; instructing individuals and groups in the theory and application of proper motor vehicle driving skills; supervising and co-ordinating the activities of bus and/or tram crews.

**Related Occupations**

Occupation 4139-G	: Conductor (Bus/Tram)
Occupation 2419-A	: Ambulance Officer

**7039-A DRIVING INSTRUCTOR/  
INSTRUCTRESS, MOTOR VEHICLE**

Instructs individuals and groups in the theory and application of proper motor vehicle driving skills.

Instructs individuals under actual driving conditions, explaining and demonstrating operation of brakes, clutch, gear selection or automatic transmission, signals and lights; teaches road traffic regulations.

May illustrate and explain handling and mechanical operation of motor vehicle, driving techniques and emergency procedures using blackboard diagrams and audio-visual aids. May specialise in teaching driving skills related to a particular type of motor vehicle and be designated accordingly, e.g.

Articulated Vehicle Driving Instructor/Instructress  
 Automobile Driving Instructor/Instructress; Car Driving Instructor/Instructress; Motor Car Driving Instructor/Instructress  
 Heavy Vehicle Driving Instructor/Instructress  
 Motor Bus Driving Instructor/Instructress; Bus Operator Training Instructor/Instructress  
 Motor Cycle Driving Instructor/Instructress

**Job Content Factors****Workers**

FP: GE8-12y

HC: R

IP: T3-6m

RQ: L1 S1 P1 V1

**Materials**

SM: P1 T1

EQ: V1

**Functions**

MA: P2 D3 R4 L3

PA: C1 S1 E1

SA: P1

**Context**

EC: M1 L1

SS: 4

TC: A1 I2 R2

SC: 8 (vy)

LMS: NA (40%SE)

ASIC: 51

**7039-B****COURIER, ROAD TRANSPORT  
Messenger, Road Transport**

Drives motor vehicles for various users between points before or after use, or to deliver small articles and act as a messenger, performing any combination of the following duties.

Collects or delivers vehicles for hire car firms, garages, repair shops, manufacturers or distributors. Obtains receipt for delivery of vehicle. Returns cars to original pool or distributes to other users. Checks fuel, oil and cleanliness of car before delivery. Loads articles to be delivered into or onto vehicle. Operates over predetermined route or as required. Obtains or gives receipt for goods and items carried. Maintains delivery records.

May operate motor scooter in order to deliver articles to destination, and be designated accordingly,

Motor Scooter Courier

**Job Content Factors****Workers**

FP: GE8y

HC: R

IP: T1-3m

RQ: L1 V2

**Materials**

SM: D2 T1

EQ: V1

**Functions**

MA: D3 R4 L3

PA: C1 H1 S2 W2 E2

SA: A2 I1

**Context**

EC: L1

SS: 1

TC: A1 I2 R2 T2

SC: 2 (na)

LMS: NA ( 5%SE)

ASIC: 51

**7039-C****INSPECTOR, BUS/TRAM**

Supervises and co-ordinates the activities of bus and/or tram crews in private or public transport organisations.

Checks starting, finishing and running times. Arranges replacement of crew and vehicles in cases of sickness or accident. Inspects passengers' tickets to eliminate nonpayment or overriding practices. Investigates complaints from passengers and reports findings to management. Recommends improvement and changes in services. Liaises with dispatcher to reroute traffic as necessary.

May patrol route to detect obstructions. May liaise with police to clear obstructions along routes and reroute traffic as required.

**Job Content Factors****Workers**

FP: GE10y

HC: R

IP: T2-3m E10y

RQ: L2 P1

**Materials**

SM: D2 P2 T1

EQ: V2

**Functions**

MA: P2 D2 R3 L2

PA: C2 S2 W1 E1

SA: S2 L2 I2 B1 R3-4

**Context**

EC: L3

SS: 4

TC: A1 I1 T2

SC: 6 (na)

LMS: NA ( 0%SE)

ASIC: 51

**7039-Z****ROAD TRANSPORT OPERATING  
OCCUPATIONS nec**

This residual group covers road transport operating occupations not elsewhere classified in Minor Group 703, e.g. Snowmobile Operator

## **MAJOR GROUP 71**

### **MATERIALS HANDLING OCCUPATIONS**

Materials Handling Occupations are classified in the following minor groups.

- 710 Hoisting Occupations
- 711 Bulk Materials and Fluids Handling Occupations
- 712 Stores and Packaging Occupations
- 719 Other Materials Handling Occupations

#### *Related Occupations*

- |                   |  |
|-------------------|--|
| Occupation 5390-D | : Braceman/woman (Mine Cage)           |
| Occupation 5390-B | : Platman/woman                        |
| Occupation 5390-C | : Skipman/woman                        |
| Occupation 4299-D | : Lift Operator                        |
| Occupation 4295-B | : Railway Porter, Luggage              |
| Minor Group 703   | : Road Transport Operating Occupations |
| Occupation 5390-A | : Winding Engine Driver                |

# 71 MATERIALS HANDLING OCCUPATION

## 710 HOISTING OCCUPATIONS

### 7100 FOREMEN/WOMEN, HOISTING OCCUPATIONS

7100-A Foreman/woman, Hoisting Occupations

### 7101 CRANE DRIVERS

7101-A Mobile Crane Driver  
7101-B Tower Crane Driver  
7101-C Cabin Controlled Overhead Crane Driver  
7101-Z Crane Drivers nec

### 7102 HOIST AND WINCH OPERATORS

7102-A Hoist Operator, Materials and Workers  
7102-B Winch Operator  
7102-Z Hoist and Winch Operators nec

### 7103 RIGGERS

7103-A Rigger

### 7104 DOGMEN/WOMEN, CRANE CHASERS AND SLINGING OCCUPATIONS

7104-A Dogman/woman  
7104-B Crane Chaser  
7104-Z Dogmen/women, Crane Chasers and Slinging Occupations nec

## 712 STORES AND PACKAGING OCCUPATIONS

### 7120 FOREMEN/WOMEN, STORES AND PACKAGING OCCUPATIONS

7120-A Foreman/woman, Stores and Packaging Occupations

### 7121 STOREMEN/WOMEN AND RELATED OCCUPATIONS

7121-A Storeman/woman  
7121-B Stores Assistant

### 7122 MACHINE PACKAGING OCCUPATIONS

7122-A Packaging Line Machine Operator, General (Except Food and Chemical)  
7122-B Baling or Compression Machine Operator  
7122-C Strapping Machine Attendant  
7122-D Automatic Palletiser/Depalletiser Operator  
7122-E Sack/Bag Filler  
7122-F Carton Packing Machine Attendant  
7122-G Packaging Machine Feeder  
7122-Z Machine Packaging Occupations nec

### 7123 NON-MACHINE PACKAGING OCCUPATIONS

7123-A Hand Packer (General)  
7123-B Furniture Packer  
7123-Z Non-Machine Packaging Occupations nec

## 711 BULK MATERIALS AND FLUIDS HANDLING OCCUPATIONS

### 7110 SUPERVISORS/FOREMEN/WOMEN, BULK MATERIALS AND FLUIDS HANDLING OCCUPATIONS

7110-A Supervisor/Foreman/woman, Bulk Materials Handling Occupations  
7110-B Leading Hand, Bulk Materials Handling Occupations  
7110-C Supervisor/Foreman/woman, Fluids Handling Occupations  
7110-D Supervisor/Foreman/woman, Gas Pipeline  
7110-Z Supervisors/Foremen/women, Bulk Materials and Fluids Handling Occupations nec

### 7111 BULK SHIP AND TRAIN LOADING/UNLOADING, RECLAIMING AND STACKING EQUIPMENT OPERATORS

7111-A Ship Loader Operator  
7111-B Bucketwheel Reclaimer Operator  
7111-C Stacker Operator  
7111-D Train Loader Operator  
7111-E Car Dumper Operator  
7111-F Bulk Materials Handling Equipment Operator, General  
7111-G Conveyor Belt Operator, Bulk Materials Handling  
7111-Z Bulk Ship and Train Loading/Unloading, Reclaiming and Stacking Equipment Operators nec

### 7112 BULK FLUIDS HANDLING OCCUPATIONS

7112-A Fluids Handler  
7112-B Compressor Turbine Operator  
7112-C Oil Movements Operator

### 7119 OTHER BULK MATERIALS AND FLUIDS HANDLING OCCUPATIONS

7119-A Control Room Operator, Bulk Materials and Fluids Handling  
7119-Z Bulk Materials and Fluids Handling Occupations nec

## 719 OTHER MATERIALS HANDLING OCCUPATIONS

### 7190 FOREMEN/WOMEN, OTHER MATERIALS HANDLING OCCUPATIONS

7190-A Foreman/woman, Freight Loading/Unloading Occupations  
7190-Z Foremen/women, Other Materials Handling Occupations nec

### 7191 FREIGHT HANDLING OCCUPATIONS

7191-A Aircraft Loader  
7191-B Freight Handler (Road or Rail)  
7191-Z Freight Handling Occupations nec

### 7192 FURNITURE REMOVALISTS

7192-A Furniture Removalist/Driver  
7192-B Furniture Removalist's Assistant  
7192-Z Furniture Removalists nec

### 7193 FORK LIFT DRIVERS

7193-A Fork Lift Driver  
7193-B Straddle Carrier Operator  
7193-Z Fork Lift Drivers nec

### 7199 OTHER MATERIALS HANDLING OCCUPATIONS

7199-Z Materials Handling Occupations nec

**MINOR GROUP 710  
HOISTING OCCUPATIONS**

Hoisting Occupations are classified in the following unit groups.

- 7100 Foremen/women, Hoisting Occupations
- 7101 Crane Drivers
- 7102 Hoist and Winch Operators
- 7103 Riggers
- 7104 Dogmen/women, Crane Chasers and Slinging Occupations

**7100 FOREMEN/WOMEN, HOISTING OCCUPATIONS**

This unit group covers occupations concerned with supervising workers engaged in lifting, moving and positioning objects, and erecting rigging and moving equipment required for lifting purposes.

**Entry Requirements** Year 10 with 2-5 years' experience and possession of appropriate certificate(s) of competency.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN; supervising and co-ordinating activities of workers engaged in lifting, moving and positioning materials, equipment and products; assembling rigging and splicing cables for hoisting; and erecting and using cranes, hoists and winches.

**7100-A FOREMAN/WOMAN, HOISTING  
OCCUPATIONS**

Foreman/woman, Crane Crew

Supervises and co-ordinates activities of workers engaged in lifting, moving and positioning materials, equipment and products; assembling rigging and splicing cables for hoisting; and erecting and using cranes, hoists and winches.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Specifies locations for movement and erection of hoists and cranes. Determines number of cranes required for lift and, when more than one crane required, co-ordinates activities of crane operators and the signalling of personnel. Examines reported malfunctions and advises maintenance crew as required.

May supervise team of workers, such as crane chasers, dogmen/women and crane operators, engaged in a particular activity, such as moving objects using crane, and be designated accordingly, e.g.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y	IP: E2-5y
HC: ERS	RQ: L2 S1 D1 V1 A1
<i>Materials</i>	
SM: D2 P1 T2	EQ: S2 M2 V2
<i>Functions</i>	
MA: A1 P1 D2 R3 M3 L2	
PA: U2 C2 W1 E3	SA: S1 B1 R3-4
<i>Context</i>	
EC: M2 L2 C12,09	TC: A1 I2 R2
SS: 5	SC: 7 ( vy)
LMS: NA (0 %SE)	ASIC: 41

**7101 CRANE DRIVERS**

This unit group covers occupations concerned with operating cranes, such as mobile cranes, tower cranes and overhead cranes, to raise, move and lower materials in indoor and outdoor locations.

**Entry Requirements** possession of appropriate certificate of competency.

**Activities include** operating controls to position crane, raise and lower boom, slew boom or jib and operate winch to move and position objects at the direction of other workers.

**7101-A            MOBILE CRANE DRIVER**  
**Mobile Crane Operator**

Operates hydraulic or fixed jib mobile crane, mounted on truck, crawlers, tractor or other mobile equipment, to lift, move and lower materials and objects in locations, such as construction sites, workshops and wharves.

Starts engine and drives crane to work site, steering by moving steering wheel or, if driving crawler crane, by manipulating levers and pedals that control motion of crawler treads. Positions crane close to object to be moved. Ensures blocks and outriggers are securely placed to keep crane level on rough terrain and to stabilize crane to prevent crane from capsizing when lifting. Manipulates levers and pedals to rotate crane on chassis, to raise and lower boom or jib, to extend and retract boom of hydraulic crane and raise and lower hook. Positions hook and raises, moves and lowers load in response to hand signals, whistle blasts or two-way radio instructions. Monitors crane loading to ensure weight of load within the safe working capacity of the crane, taking into account factors, such as type of sling, length of boom, weather conditions and size and shape of load. Consults crane's load charts. Checks all persons clear of load and slings, prior to lifting load. Operates hoist to retract cable to take slack out of loaded slings and cable. Lifts load until just clear of ground or supports, so that security and stability of load may be checked. Lifts load clear of all obstructions, ensuring that maximum boom angle for particular lift is not exceeded. Ensures path clear, slews load and/or travels with load to new position and lowers load. Regularly checks indicators, such as air, water and fuel gauges, boom angle indicator, ammeter and tachometer. Inspects equipment to detect wear or damage and reports malfunctions to foreman/woman. Lubricates ropes and winches on crane and replaces work cables.

May work as a member of a team performing multi-crane lifts and co-ordinate movements with other crane operators as directed. May operate truck mounted mobile crane which is operated from separate cab. May assist rigging of pin up boom crane. May operate crane fitted with attachment used for a specific purpose, such as demolishing buildings or pile driving. May be designated according to type of mounting of crane, type of jib or boom, specific purpose of attachments or crane, or site of operation, e.g.

- Construction-Crane Driver  
Demolition-Crane Driver  
Pin-Jib Crane Driver  
Rough-Terrain Crane Driver  
Hydraulic-Boom Crane Driver  
Truck-Mounted Crane Driver  
Wharf-Crane Driver, Mobile Crane
- Crawler-Crane Driver  
Floating Crane Operator  
Tractor-Crane Driver

<b>Job Content Factors</b>	
<b>Workers</b>	
FP: GE NFR	IP: T2-3m
HC: R	RQ: L1 S1 D1 V1 A1
<b>Materials</b>	
SM: P2 T1	EQ: N1 V1
<b>Functions</b>	
MA: D3 R4 M3 L3	
PA: U1 C1 H1 S1 B1 E3	SA: S1
<b>Context</b>	
EC: M1 L1 ,09	TC: A1 I1 R2
SS: 3	SC: 3 ( vy)
LMS: NA (0 %SE)	ASIC: 41,51,52,53

**7101-B            TOWER CRANE DRIVER**  
**Tower Crane Operator**

Operates crane mounted on pedestal or structure, to lift, move and lower materials and objects in locations such as construction sites, shipyards and wharves.

Manipulates buttons, levers and pedals to rotate boom or jib, move hook along jib, raise and lower boom or luffing crane, and raise and lower hook. Positions hook and raises, moves and lowers load in response to hand signals, whistle blasts or two-way radio instructions. Monitors crane loading to ensure weight of load within the safe working capacity of the crane, taking into account factors, such as type of sling, length of boom or jib, weather conditions and size and shape of load. Consults crane's load charts. Checks all persons clear of load and slings, prior to lifting load. Operates hoist to retract cable to take slack out of loaded slings and cable. Lifts load until just clear of ground or supports so that security and stability of load may be checked. Lifts load clear of all obstructions, ensuring that maximum boom angle of luffing crane is not exceeded. Ensures path clear, slews load, moves load along jib and/or hoists load between levels of high rise buildings, and lowers load. Regularly checks indicators, such as temperature gauges, and ammeters. Inspects equipment to detect wear or damage and reports malfunctions to foreman/woman. Lubricates ropes and winches on crane and replaces worn cables.

May operate climbing tower crane and assist workers erecting, dismantling, or extending tower of crane for high rise construction. May operate hydraulic powered climbing device of climbing tower crane to raise crane once section bolted in place or to lower crane so that crane may be dismantled. May operate stiff-leg derrick crane. May operate portal crane, which travels on rail tracks, in locations such as wharves. May be designated according to particular type of tower crane, particular characteristic of crane, or site of operations, e.g.

- Climbing-Tower Crane Driver  
Luffing-Crane Driver  
Wharf-Crane Driver, Tower Crane

<b>Job Content Factors</b>	
<b>Workers</b>	
FP: GE NFR	IP: T3-4m
HC: R	RQ: S1 D1 V1 A1
<b>Materials</b>	
SM: P2 T1	EQ: S1 N1 M1 V1
<b>Functions</b>	
MA: A1 D3 R4 M3 L3	
PA: U1 C1 H2 S1 B2 E3	SA: A1 S1
<b>Context</b>	
EC: M1 L1 C09,12	TC: A1 R2
SS: 3	SC: 3 ( vy)
LMS: NA (0 %SE)	ASIC: 41

**7101-C            CABIN CONTROLLED OVERHEAD CRANE DRIVER**  
**Overhead Electric Travelling Crane Operator**

Operates overhead cabin controlled crane, such as bridge, gantry or monorail crane to lift, move and lower materials and objects in locations, such as workshops, foundries, warehouses and railway yards.

Ensures power connected prior to entering cabin. Operates pedals, levers and buttons to regulate travel of monorail crane on overhead rail; gantry crane on ground level rails; or bridge crane on overhead rails; movement of crane hoist across bridge; and raise or lower hook. Positions crane and hook in

response to hand signals, whistle blasts or two-way radio instructions. Monitors crane loading to ensure weight of load within the safe working capacity of the crane, taking into account factors, such as type of sling, weather conditions, if outdoors, and size and shape of load. Operates hoist to retract cable to take slack out of loaded slings and cable. Lifts load until just clear of ground or supports, so that security and stability of load may be checked. Ensures path clear, moves hoist and load across bridge and/or along rails to new position. Regularly checks indicators, such as temperature gauges and ammeters. Inspects equipment to detect wear or damage and reports malfunctions to foreman/woman. Lubricates ropes and winches on crane and replaces worn cables.

May carry loads of hot and/or molten material, ensuring that material is safely loaded and all persons maintain a safe distance from load and any dangerous gases. May pour molten material. May carry metal using electromagnetic attachment and release current to release material. May sling load and lift, move and position objects with crane, by walking alongside load at ground level, and regulating speed, direction and hoist movement, using pendant hand control hanging from crane. May work as a member of a team

performing multi-crane lifts and co-ordinate movements with other crane operators as directed. May be designated according to type of overhead crane operated, e.g.

Gantry Crane Driver                      Bridge Crane Driver  
Monorail Crane Driver                  Hot Metal Crane Driver

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T1-2m
HC: R	RQ: S1 D1 V1 A1
<i>Materials</i>	
SM: P2 T1	EQ: S1 N1 V1
<i>Functions</i>	
MA: A1 D3 R4 M3 L3	
PA: U1 C1 H1 S1 W2 B2 E3	SA: S1
<i>Context</i>	
EC: L1 ,09	TC: A1 I2 R2
SS: 7	SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: Many

**7101-Z CRANE DRIVERS nec**

This residual group covers crane drivers, not elsewhere classified in Unit Group 7101, e.g.

Pendant Controlled Overhead Crane Operator

**7102 HOIST AND WINCH OPERATORS**

This unit group covers occupations concerned with operating hoists and winches to hoist or haul workers and/or materials.

**Entry Requirements** possession of appropriate certificate of competency.

**Activities include** operating hoist controls to raise and lower workers and materials; hoisting between levels of high rise building; and operating winch controls to haul, drag or hoist materials and objects.

**7102-A HOIST OPERATOR, MATERIALS AND WORKERS**

Operates power-driven workers-and-materials hoist located on outside of building or located in lift well of high rise building under construction.

Manipulates push button or lever controls to raise and lower hoist and to open and close doors. Controls speed of hoist, using slow speed (if two speed control fitted) when starting lift or descent. Directs loading of cage, ensuring that no material projects through cage and that load of materials and/or persons does not exceed permitted maximum. Observes braking distance to ensure brakes in good working order. Locks controls in "off" position when leaving lift unattended. Uses alarm in emergencies. Checks safety interlocks on all doors after each extension or climbing of the hoist. Regularly inspects equipment, such as guides, landings, handrails, limits which prevent hoist going above completed section, ropes, counterweights, tower bolts, ties and guys. Ensures there is no loose or displaced electrical wiring. Tests the operation of the alarm system.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T1-3w
HC: R	RQ: S1 D1 V1 A1
<i>Materials</i>	
SM: T1	EQ: N2 V1
<i>Functions</i>	
MA: A1 D2 R4 M3 L3	
PA: U1 C1 W1 B2 E2	SA: S1

<i>Context</i>	
EC: M1 L1 C10,12	TC: A1 S2 R2
SS: 7	SC: 7 (vy)

LMS: NA (0 %SE)                      ASIC: 41

**7102-B WINCH OPERATOR**

Operates power-driven hauling or lifting device, consisting of a cable and winding drum, to move heavy objects, such as construction materials, freight and logs, in locations such as construction sites, wharves and sawmills.

Bolts winch to appropriate site or ensures existing anchorage secure. Examines load to be moved, assessing characteristics, such as weight, size, shape and location of load, and ensures rope is of suitable strength and elasticity for a safe move. Connects power supply and presses button to start winch. Ensures rope path clear and manipulates levers or pushes buttons to raise, lower, pull or position load according to instructions in response to hand signals, coded whistle blasts or commands over two-way radios from other workers. Checks that rope spools neatly onto drum and at correct angle, to prevent damage to rope. Monitors path of rope to ensure rope does not snag. Adjusts speed and applies brakes as necessary. Locks controls when winch unattended. Erects barricades and warning signs around rope path, if necessary. When operating winch mounted on tractor or other vehicles, ensures that vehicle is in a stable position prior to commencement of hauling, to avoid tipping vehicle on sloping or unstable ground. Regularly examines cable, winch drum, brakes and guards to ensure all in good working condition.

Ensures that replacement ropes are of correct length and that correct safety margins, with respect to strength, are maintained. Reports malfunctions to supervisor.

May use handles to operate winch manually and remove handles when operating winch under power. May use winch to hoist materials, from ground level and between levels of high rise building under construction. May specialise in the operation of a winch for hoisting purposes and be designated accordingly, e.g.

- Hoist Operator (Materials Only)
- Builders' Hoist Operator (Materials Only)

Job Content Factors

Workers	
FP: GE NFR	IP: T1-3y
HC: R	RQ: S1 D1 V1 A1

Materials	
SM: T1	EQ: N2 V1
Functions	
MA: A2 D3 R4 M3 L3	
PA: U1 C1 H2 S1 W1 E4	SA: S1
Context	
EC: M2 L4 ,09	TC: A1 R2
SS: 2	SC: 2 ( vy)
LMS: NA (0 %SE)	ASIC: Many

**7102-Z HOIST AND WINCH OPERATORS nec**  
This residual group covers hoist and winch operators not elsewhere classified in Unit Group 7102.

7103 RIGGERS

This unit group covers occupations concerned with assembling and installing rigging gear to move heavy objects.

**Entry Requirements** possession of appropriate certificate of competency.

**Activities include** selecting gear; assessing weight of object to be moved; assembling gear; slinging loads; and signalling crane and winch operators to lift and move gear.

7103-A RIGGER

Assembles and installs rigging gear, such as cables, ropes, pulleys and winches, to safely lift, lower, move or position machinery, structural steel or other heavy objects in locations such as manufacturing plants, shipyards and construction sites; performs any combination of the following duties.

Examines object to be moved. Using knowledge of rope types, bolts, knots, cables and other equipment, selects correct lifting gear to ensure safe lifting of particular load. Constructs slings and other grappling devices as required. Erects lifting tackle attaching pulleys and blocks to fixed overhead structures; erecting gin poles, securing winch, or erecting temporary jib or derrick; and installs appropriate cable, attaching counterweights as required. Attaches grappling device to both hoisting equipment and the item to be moved, using appropriate clamps, hooks, bolts, and knots. Loads sling, covering any sharp corners with padding to prevent damage to sling. Gives hand signals, coded whistle blasts, or verbal instructions through two-way radio to crane or winch operator, to guide the lifting and moving of load; to ensure safety of personnel and equipment; and to place objects in exact positions. Constructs suspended work platforms, swing stages and boatswain's chairs. Attaches appropriate guard rails and wire meshing. Uses rope and steel straps to suspend platform and attaches to counterweighted steel outrigger. Operates stage or chair, by pulling rope, to carry materials to required height and/or obtain appropriate working height.

Ties swing stage or boatswain's chair to building to prevent swaying. Erects cranes, erects booms of mobile cranes, and increases height of tower cranes by bolting component parts and rigging cable. Erects barricades and warning signs where lifting operations may present a danger to pedestrians or workers. Inspects, maintains and repairs equipment. Splices ropes and wire cables to make or repair slings and tackle, using hand tools. Ensures that maximum working loads are not exceeded and that safety requirements are met at all times.

May install and repair rigging and weight-handling gear on ships only, and be designated,  
Rigger, Shipyard

Job Content Factors	
Workers	
FP: GE NFR	IP: T1y
HC: R	RQ: S1 D1 V1 A1
Materials	
SM: D2 T1	EQ: S1 N1
Functions	
MA: A1 P2 D2 R3 M3 L3	
PA: U1 C1 H1 W1 B1 E4	SA: S1
Context	
EC: M1 L2 C12,09	TC: A1 S2 R2
SS: 3	SC: 3 ( vy)
LMS: NA (10%SE)	ASIC: 41

7104 DOGMEN/WOMEN, CRANE CHASERS AND SLINGING OCCUPATIONS

This unit group covers occupations concerned with slinging and directing the movement of loads handled by crane or winch in locations such as manufacturing plants, high rise and ground level

construction sites.

**Entry Requirements** possession of certificate of competency.

**Activities include** examining load; consulting load charts; selecting slings and other appropriate grappling devices; attaching grappling device and loading slings; ensuring load is secure and balanced, that path is clear and safety requirements are met.

**7104-A DOGMAN/WOMAN**

Slings and directs the movement of loads handled by crane in locations such as manufacturing plants and high rise and ground level construction sites, where the load lifted is not generally in full view of the crane driver.

Performs similar duties to those of 7104-B CRANE CHASER when load is not in full view of the crane driver.

May ride a load, that is being supported by the sling, hook or other grappling device used to support load; may wear safety harness secured to hook and ensure that all other safety requirements for particular operation are met.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T6m
HC: R	RQ: S1 Q1 D1 V1 A1
<i>Materials</i>	
SM: P2 T1	EQ: N1
<i>Functions</i>	
MA: D2 R3 M3 L3	
PA: U1 C1 W1 B1 E3	SA: S1
<i>Context</i>	
EC: M1 L2 C12	TC: A1 S2 R2
SS: 3	SC: 3 ( vy)
LMS: NA (0 %SE)	ASIC: 41

**7104-B CRANE CHASER**

Slings and directs the movement of loads handled by crane or winch in locations such as manufacturing plants and ground level construction sites, when the load is in full view of the crane or winch operator.

Examines load to be moved, estimating size, shape, weight and centre of gravity. If necessary, consults load charts to ensure load does not exceed lifting capacity of crane. Uses knowledge of rope types, chains, slings and other equipment to select sling or other appropriate grappling device. Attaches

grappling device to both hoisting equipment and the item to be moved, using appropriate clamps, hooks, bolts and knots. Loads sling covering any sharp corners with padding to prevent damage to sling. Ensures load is secure and signals crane or winch operator to lift load clear of all obstructions. Ensures load evenly balanced. Walks beside load to ensure path clear. Pushes or pulls load as it is lowered, to position it in designated place. Ensures that safety requirements are met at all times. Inspects chains, slings, ropes, cables, hooks and grappling equipment for flaws and damage such as splits, wear, mildew and corrosion and reports defects to supervisor.

May sling load and lift, move and position objects with overhead crane, by walking alongside crane at ground level, and regulating speed, direction and hoist movement, using pendant hand control hanging from crane. May work as member of team on lifting operations requiring more than one crane.

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T3-6m
HC: R	RQ: S1 D1 V1
<i>Materials</i>	
SM: D2 T1	EQ: S1 N1
<i>Functions</i>	
MA: D2 R3 M3 L3	
PA: U1 C2 H1 W1 E4	SA: S1
<i>Context</i>	
EC: M1 L2	TC: A1 R2
SS: 3	SC: 4 ( vy)
LMS: NA (0 %SE)	ASIC: Many

**7104-Z DOGMEN/WOMEN, CRANE CHASERS AND SLINGING OCCUPATIONS nec**

This residual group covers other dogmen/women, crane chasers and slinging occupations not elsewhere classified in Unit Group 7104 concerned with hoisting gear and slinging loads to be moved.

## MINOR GROUP 711

### BULK MATERIALS AND FLUIDS HANDLING OCCUPATIONS

Bulk Materials and Fluids Handling Occupations are classified in the following unit groups.

- 7110 Supervisors/Foremen/women, Bulk Materials and Fluids Handling Occupations
- 7111 Bulk Ship and Train Loading/Unloading, Reclaiming and Stacking Equipment Operators
- 7112 Bulk Fluids Handling Occupations
- 7119 Other Bulk Materials and Fluids Handling Occupations

#### 7110 SUPERVISORS/FOREMEN/WOMEN, BULK MATERIALS AND FLUIDS HANDLING OCCUPATIONS

This unit group covers occupations concerned with co-ordinating activities of workers engaged in moving and storing bulk materials and fluids.

**Entry Requirements** Year 9-10 and up to 5 years' experience plus service with a particular employer.

**Activities include** patrolling work area to ensure plant operating correctly; ensuring production schedules are met; and co-ordinating activities of workers engaged in unloading, storing and loading bulk materials and fluids.

#### 7110-A SUPERVISOR/FOREMAN/WOMAN, BULK MATERIALS HANDLING OCCUPATIONS

Supervises and co-ordinates activities of workers engaged in loading, unloading, storing, stacking and moving of bulk materials such as grain, ore, superphosphate and sugar, performing any combination of the following duties.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Maintains contact with workers by radio. Patrols work area to ensure plant operating correctly. Examines faulty equipment and notifies maintenance crew of location and nature of faults. Ensures customers' specifications met. Liaises with port control, shipping clerks and shipping agents. Advises ship loader operator of tidal movements, weather patterns and draught of ship. Supervises ancillary workers, such as dozer drivers and water truck drivers, working in materials handling area. Confers with superintendent and other supervisors/foremen/women.

May be designated according to area of responsibility or level of responsibility, e.g.

- Supervisor/Foreman/woman, Port
- Supervisor, Railway Transport (Freight)
- Supervisor/Foreman/woman, Train Loading
- Supervisor/Foreman/woman, Unloading

#### Job Content Factors

##### Workers

FP: GE10y IP: E2-5y  
HC: ESR RQ: D1 V1 A1

##### Materials

SM: D2 P1 T2 EQ: V2

#### Functions

MA: A1 P1 D2 R3 M3 L2

PA: SV WV E2

SA: S1 B1 R3-4

#### Context

EC: L4 C04,09,12

TC: A1 I2 R2

SS: 5

SC: 7 (vy)

LMS: NA (0 %SE)

ASIC: Many

#### 7110-B LEADING HAND, BULK MATERIALS HANDLING OCCUPATIONS

Co-ordinates activities of workers engaged in unloading, storing, stacking, moving and loading of bulk materials such as grain, ore, superphosphate and sugar, performing any combination of the following duties.

Patrols work area to ensure plant operating correctly. Checks conveyor belts. Liaises with foreman/woman plant operators, railway and maintenance departments and maintains contact using radio. Ensures work carried out according to foreman/woman's instructions. Ensures that maximum unloading, reclaiming and loading rates are maintained and that desired productivity levels met. Enforces safety standards. Examines and resolves work problems or refers these to foreman/woman. Repairs minor faults or alerts maintenance crew. Works as leader of crew to transfer rail mounted stacking or reclaiming equipment to new site. Cleans work area using broom, shovel and compressed air or water hose.

May be designated according to area of responsibility, e.g.

- Leading Hand, Site
- Leading Hand, Unloading
- Leading Hand, Dumping and Stockpiling
- Leading Hand, Ship Loading

**Job Content Factors**

<b>Workers</b>	
FP: GE9y	IP: E1-2y
HC: ESR	RQ: D1 V1 A1
<b>Materials</b>	
SM: P1 T2	EQ: S1 N1
<b>Functions</b>	
MA: A2 P2 D2 R3 M3 L3	
PA: U1 H1 W1 E3	SA: S1 B1 R4-3
<b>Context</b>	
EC: L3 C04,09	TC: A1 I2
SS: 3	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: Many

**7110-C SUPERVISOR/FOREMAN/WOMAN, FLUIDS HANDLING OCCUPATIONS**

Supervises and co-ordinates activities of workers, engaged in operating pumps and valves in order to move gases, liquids and fluidised solids.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Patrols work area to ensure plant operating correctly. Examines faulty equipment and notifies maintenance crew of location and nature of faults. Liaises with ship's officers and determines loading/unloading plan for ship. Directs ship loading/unloading operations. Ensures products blended according to specifications.

May specialise in supervising workers engaged in loading, unloading or tank farm operations, and be designated accordingly, e.g.

Supervisor/Foreman/woman, Fluids Loading/Unloading  
Supervisor/Foreman/woman, Tank Farm

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T2m E5y
HC: ESR	RQ: D1 V1 A1
<b>Materials</b>	
SM: D2 P1 T2	EQ: V2

**Functions**

MA: A1 P2 D2 R3 M3 L2	
PA: SV WV B2 E2	SA: S1 B1 R3-4
<b>Context</b>	
EC: L4 ,09	TC: A1 I2 R2
SS: 5	SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: Many

**7110-D SUPERVISOR/FOREMAN/WOMAN, GAS PIPELINE  
Gas Pipeline Area Supervisor**

Supervises and co-ordinates activities of workers controlling flow of gas through a section of pipeline from the source of supply to the distribution system.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

**Job Content Factors**

<b>Workers</b>	
FP: GE10y	IP: T2m E5y
HC: ECR	RQ: L1 D1 V1 A1
<b>Materials</b>	
SM: D2 P1 T2	EQ: V2
<b>Functions</b>	
MA: A1 P2 D2 R3 M3 L2	
PA: SV WV B2 E2	SA: S1 B1 R3-4
<b>Context</b>	
EC: L4 ,09	TC: A1 I2 R2
SS: 5	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

**7110-Z SUPERVISORS/FOREMEN/WOMEN, BULK MATERIALS AND FLUIDS HANDLING OCCUPATIONS nec**

This residual group covers supervisors/foremen/women, not elsewhere classified in Unit Group 7110 who supervise and co-ordinate the activities of workers concerned with the handling of bulk materials and fluids.

**7111 BULK SHIP AND TRAIN LOADING/UNLOADING, RECLAIMING AND STACKING EQUIPMENT OPERATORS**

This unit group covers occupations concerned with operating types of equipment which load, unload, move, store or stack bulk material like grain, ore, superphosphate or sugar onto stockpiles, reclaim this material from stockpiles, load bulk material into holds of ships or rail cars or unload bulk material from ships or rail cars.

**Entry Requirements** up to 3 months' experience and service with the particular employer.

**Activities include** operating controls to raise and lower booms, to move equipment along rails, and to start conveyors; observing control panels; liaising with control room operators; operating locking devices; turning rail cars and operating loading trippers.

**7111-A SHIP LOADER OPERATOR**

Operates ship loader to load bulk material, such as ore or grain into the holds of ships, performing any combination of the following duties.

Operates switches, buttons and levers to control travel of rail mounted ship loader; to raise and lower boom; to extend or retract boom conveyor; to lower telescopic chute (if present) and pivot slewing boom, in order to position conveyor over hatch of ship's hold. Advised, by radio, control room

operator, conveyor belt operator, and (if material is to be reclaimed) reclaimer operator, when ready to start loading. Presses alarm button and starts conveyors. Loads material according to procedure determined by load plan and tidal information. Observes flow of material into hold, controlling movements of boom to ensure even flow. Follows instructions given by worker on ship's deck, when flow of material cannot be directly observed. Advises reclaimer operator of desired speed of reclamation. Observes lights and gauges which indicate rate of flow of material, load on conveyor belts, tonnages, position of boom and malfunctions. Advises control

room operator and foreman/woman of malfunctions and, if necessary, stops equipment. Compiles shift operating reports, recording details of tonnages, loading times and stoppages. Clears spillage and cleans work area using broom, shovel and water or compressed air hoses.

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T3m E3m
PC: RC	RQ: S1 D1 V1 A1
<i>Materials</i>	
SM: P2 T1	EQ: N1 V1
<i>Functions</i>	
MA: D2 R3 M3 L3	
PA: U1 C1 S1 W2 B2 E3	SA: A1 S1
<i>Context</i>	
EC: L1 C12	TC: A1 I2 R2
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 5306

### 7111-B BUCKETWHEEL RECLAIMER OPERATOR

#### Reclaimer Operator

Operates bucketwheel reclaimer to transfer ore from stockpiles to train or ship loading areas, performing any combination of the following duties.

Liaises with control room operator, and train loader operator, or ship loader operator, by radio or telephone, and obtains permission to commence reclaiming ore. Presses alarm button and starts conveyors. Operates switches, buttons, levers and dials to control sideways movement of reclaimer boom, and height of bucketwheel. Controls rate of reclamation of ore, as directed by train or ship loader operator, by adjusting distance of reclaimer from stockpile, angle of rake and speed of slew, or speed of sideways movement of reclaimer. Controls dust by operating appropriate number of sprinklers. Turns switch to change mode of control from manual to automatic, as directed by control room operator. Monitors ammeters, gauges and lights which indicate load on equipment, speed and position of boom, level in surge bins, wind speed, distance travelled and malfunctions. Advises control room operator and foreman/woman of malfunctions and, if necessary, stops equipment. Compiles shift report. Cleans work area using shovel and hose.

May drive reclaimer to mobile transfer platform and work as part of a team to transfer reclaimer to another reclamation area.

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T3m E3m
HC: RC	RQ: S1 D1 V1 A1
<i>Materials</i>	
SM: P2 T1	EQ: N1 V1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C1 S1 W2 B2 E4	SA: A1 S1
<i>Context</i>	
EC: L1 C12	TC: A1 I2 R2
SS: 4	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 361,120,11,15

### 7111-C STACKER OPERATOR

Attends stacking equipment to construct stockpiles of ore.

Monitors gauges and lights on control panel of stacker to determine rate of flow of ore, speed and position of slew, load on equipment, wind speed and malfunctions. Reports malfunctions by radio or telephone to control room operator and foreman/woman, stopping stacker if necessary. Turns switch to change mode of control from automatic to manual, as advised by control room operator. Operates switches, buttons, levers and dials to control movement of stacker on rails, slew of stacker boom, and angle of boom. Controls dust by operating appropriate number of sprinklers. Patrols stacker

and conveyor belt area, checking for abnormalities and malfunctions. Clears spillage and cleans work area using shovel and hose. Compiles shift report.

May drive stacker onto mobile transfer platform and work as part of a team to transfer stacker to another stockpiling area.

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T3m E3m
HC: RC	RQ: S1 D1 V1 A1
<i>Materials</i>	
SM: D2 T1	EQ: N1 V1
<i>Functions</i>	
MA: D3 R4 M3 L3	
PA: U1 C1 S1 W2 B1 E4	SA: A1 S1
<i>Context</i>	
EC: L1 C12	TC: A1 I2 R1
SS: 3	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 361,120,11,15

### 7111-D TRAIN LOADER OPERATOR

Operates control panel to control machinery which loads bulk material into railway cars, performing any combination of the following duties.

Advises control room operator and reclaimer operator, by radio or telephone, when ready to start loading. Presses alarm button and starts conveyor belts. Operates button and levers to open or close clam shell gates; or operate hydraulic positioner and slew conveyor and control speed of loading and speed of slew conveyors. Directs train speed and movement by liaising with locomotive observer. Advises reclaimer operator of desired speed of reclamation. Monitors lights and gauges which indicate level of material in surge bins, rate of flow of material, passage of slew conveyor and load on conveyor belts. Responds to alarms indicating malfunctions by shutting down equipment including conveyors and reclaimer. Advises control room operator and reclaimer operator of any problems. Compiles shift operating reports, recording tonnages of ore reclaimed, malfunctions and stoppages. Clears spillage and cleans work area using shovel, broom and compressed air or water hose.

May operate switch which pressurises loading tunnel.

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T3m E3m
HC: RC	RQ: S1 D1 V1 A1
<i>Materials</i>	
SM: D2 P2 T1	EQ: N1 V1
<i>Functions</i>	
MA: D2 R3 M3 L3	
PA: U1 C1 S1 W2 B2 E3	SA: S1
<i>Context</i>	
EC: L1 C06,09	TC: A1 I2 R2
SS: 3	SC: 6 (vy)
LMS: NA (0 %SE)	ASIC: 5200

### 7111-E CAR DUMPER OPERATOR

Operates control panel to control machinery which dumps bulk material from railway cars, performing any combination of the following duties.

Establishes contact by radio or radio telephone with train crew. Liaises with control room operator. Presses buttons to start conveyors. Uses light signals to advise locomotive driver to stop train or to proceed. Positions car in dumper by releasing and re-applying retarders which lock wheels into position; or presses button to activate hydraulic positioner and wheel grippers. When advised by railway personnel or dumping crew that car ready for dumping, operates siren and dumps car manually by pressing dump and return buttons or engages automatic dumping sequence. Determines when line clear and releases retarders to allow empty cars to be moved out of dumper. Monitors lights and gauges which indicate

level or ore in surge bins, rate of flow of material, load on conveyor belts and malfunctions. Advises control room operator and foreman/woman of malfunctions and stops equipment. Compiles shift operating reports, recording train arrival and unloading times, tonnages handled, malfunctions and stoppages. Clears spillage and cleans work area using shovel, broom and water or compressed air hose.

**Job Content Factors****Work-ers**

FP: GE NFR

IP: T1m

HC: RC

RQ: S1 D1 V1 A1

**Materials**

SM: D2 P2 T1

EQ: S2 N1 M1 V1

**Functions**

MA: D2 R3 M3 L3

PA: U1 C1 S1 W2 B2 E3

SA: S1

**Context**

EC: L4 C06,09

TC: A1 I2 R2

SS: 2

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 5200

### 7111-F BULK MATERIALS HANDLING EQUIPMENT OPERATOR, GENERAL

On a rotational basis, operates a combination of materials handling equipment to load, unload, move, store or stack specific type of bulk material such as grain, ore, superphosphate or sugar, performing any combination of the following duties.

Receives incoming material, checking material received against receipt note. Opens doors or hatches on rail wagons to unload material into underground bins or onto lower level ground. Operates wheel locks, brakes, retarders or railway car positioners to hold and place railway cars in position. Operates control panel to tip railway wagons and dump material, to operate conveyor belts and control flow of dumped material onto conveyor belts. Directs trucks to dump material in desired location. Operates country elevator or grain thrower to stack grain onto stockpile. Uses grain thrower to load material from stockpile onto truck. Drives front-end loader to move materials onto stockpiling areas, into underground bins or onto underground conveyors. Drives rail mounted tripper to redirect flow of material to particular storage cells, conveyor belts or to load material evenly onto stockpile or sets controls on travelling tripper to determine length of travel. Loads rail wagons using lever-operated chute, slewing chute to ensure even load. Takes samples of material using sampling spear or container, or receives sample taken by automatic sampling device. Checks material for impurities or pests. Forwards samples to laboratory. Checks and records weight of material in weighing bins. Patrols work area, monitoring operation of conveyor belts, elevators and vibrating screens. Stops equipment to remove impurities or blockages and in event of spillage or malfunctions, notifies foreman/woman and control room operator. Clears spillage and cleans work area using broom, shovel and water or compressed air hose. Sweeps dust into dust extractors. Cleans equipment and storage areas, using appropriate detergent and chemicals.

May treat material such as grain, with insecticide and lay baits for rodents. May attend weighbridge. May be designated according to material handled, e.g.

Grain Handler

**Job Content Factors****Workers**

FP: GE NFR

IP: T1m

HC: RC

RQ: S1 D1 V1 A1

**Materials**

SM: D2 T1

EQ: S1 N1 V1

**Functions**

MA: D3 R4 M3 L3

PA: U1 C1 H1 S1 W1 E3

SA: S1

**Context**

EC: L4 C09

TC: A1 I2 R2

SS: 2

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 7111-G CONVEYOR BELT OPERATOR, BULK MATERIALS HANDLING

Controls conveyors or conveyor system to transfer bulk materials from stockpiles to processing or shipping points, move materials or products between departments, or on production lines, or load and unload vehicles; performs any combination of the following duties.

Liaises with control room operator by radio or telephone. Moves controls to start conveyor and regulate rate of movement and routing of material. Operates tripper to redirect flow of material to particular storage cells or conveyor belts, or to load material evenly onto stockpile. Patrols work area. Observes conveyed materials for impurities and stops equipment to remove debris. Reports equipment or processing abnormalities to foreman/woman and control room operator. Collects samples of material using shovel, scoop or mechanical sampler, and examines sample for impurities or pests, or forwards sample to laboratory. Sprays additives on material passing on conveyor. Clears spillage and cleans work area using broom, shovel and water or compressed air hose.

May break, pry and force oversized rock through grizzly (iron grating), using bar and sledge hammer. May patrol area where equipment such as screens, crushers, conveyors and chutes operate.

**Job Content Factors****Workers**

FP: GE NFR

IP: T1m

HC: RC

RQ: D1 V1 A1

**Materials**

SM: P2 T1

EQ: N1 V1

**Functions**

MA: D3 R4 L3

PA: U1 H1 W1 E4

SA: S1

**Context**

EC: L1 C06,09

TC: A1 I2 R2

SS: 2

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 7111-Z BULK SHIP AND TRAIN LOADING/ UNLOADING, RECLAIMING AND STACKING EQUIPMENT OPERATORS nec

This residual group covers bulk ship and train loading and unloading, reclaiming and stacking equipment operators, not elsewhere classified in Unit Group 7111, e.g.

Ship Unloader

## 7112 BULK FLUIDS HANDLING OCCUPATIONS

This unit group covers occupations concerned with the bulk handling of liquids and gases.

**Entry Requirements** 1-2 years' experience in some cases.

**Activities include** operating pumps and valves to transfer fluids; and operating compressors, scrubbers, evaporators and other equipment at refineries and/or tank farms.

### 7112-A FLUIDS HANDLER

Operates pumps and valves to transfer gases, liquids (such as oil, caustic solution and liquid sugar) and fluidised solids such as cement and lime; performs any combination of the following duties.

Receives instructions regarding fluid movements. Starts appropriate pumps and opens and closes valves to direct flow of fluid from specified areas to processing, delivery or receiving areas, to specific tanks or to enable blending of products to take place. Inspects interior of tanker using torch or reflected beam of sunlight prior to loading and, on completion of unloading, to ensure tank empty. Lowers gauge rod into tank to check liquid level prior to unloading and at completion of loading. Operates ship loading boom by pressing buttons to start and stop motors and slew and luff articulated boom; or manually moves articulated arm. Aligns boom or arm with valve of ship, to enable fitter to connect coupling to valve. Advises tank farm when ready to commence loading or unloading and maintains radio contact with ship's crew. Tests valve responses prior to loading or unloading. Monitors pressure during loading or unloading, advising ship crew if correct pressure not maintained and shutting down equipment if necessary. Adjusts boom as level of ship rises or falls. Connects and clamps articulated arm or hose to railway tankers to load or unload fluid (or watches driver doing same). Starts pneumatic pumps and compressed air flow to fluidise material, such as cement or lime and to pump such material in or out of tanker. Monitors pressure level of material in storage bins or tanks and level in tanker during loading or unloading. At the completion of the loading or unloading, stops pumps, if necessary, and disconnects coupling. Draws articulated boom back from ship. Collects samples of material prior to loading or unloading and forwards to laboratory. Patrols work area. Inspects pumps, tank storage and transfer system for leaks, abnormal pressures and temperatures or potential hazards. May specialise in controlling movement of liquids within tank farm and be designated,

Tank Farm Operator (Fluids)

#### Job Content Factors

##### Workers

FP: GE NFR IP: T3-6m  
HC: RC RQ: D1 V1 A1

##### Materials

SM: D2 P2 T1 EQ: S1 N1

##### Functions

MA: D2 R3 M3 L3  
PA: U1 C1 S2 W1 E3 SA: S1

##### Context

EC: L1 ,12,13 TC: A1 I2  
SS: 2 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 7112-B COMPRESSOR TURBINE OPERATOR Turbine Station Operator (Oil)

Operates compressors, scrubbers, evaporators, and pumps to transfer natural gas from wellhead to processing station and from processing station to distribution system.

Operates and maintains equipment such as compressors, generators, valves, pumps and pressure regulators. Moves controls and turns valves to start compressor engines, pumps and auxiliary equipment. Monitors meters, gauges and recording instruments to maintain specified temperature, pressure and flow through system. Observes and listens to operation of equipment to detect malfunctions. Assists in the operation, maintenance and upgrading of cathodic protection system. Takes rectifier and cathodic protection reading as required. Changes charts on recording equipment and compiles log of pressures and gas flows. Compiles and submits reports as required.

May carry out pigging (cleaning of pipeline system). May perform daily vehicle patrol along gas pipeline.

#### Job Content Factors

##### Workers

FP: GE NFR IP: T3-6m Ely  
HC: RC RQ: D1 V1 A1

##### Materials

SM: D2 P2 T1 EQ: S1 N1

##### Functions

MA: D2 R3 M3 L3  
PA: U1 C1 S2 W1 E3 SA: S1

##### Context

EC: L1 ,12,13 TC: A1 I2  
SS: 2 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 7112-C OIL MOVEMENTS OPERATOR Tank Farm Operator (Oil)

Operates receiving, transfer, blending and delivery equipment at refineries and/or tank farms.

Turns valves and starts pumps to transfer petroleum products to and from ships, tanks, road and rail haulage vehicles. Observes flow meter and pressure gauges. Gauges quantity of oil in storage tanks before and after delivery. Blends products, as directed, by pumping component parts from storage tanks to mixing tanks. Takes oil temperature by lowering thermometer into tank. Takes oil sample, by operating bleeder valve or by lowering container into tank. Opens bleeder valve to remove sediment, phenol, water and other foreign matter from bottom of tanks. Records readings and test results. Inspects pipelines, valves and flanges to detect loose connections. Reports leaks or defective items. Greases and oils valves.

May clean pumps and equipment.

#### Job Content Factors

##### Workers

FP: GE NFR IP: T6m E1-2y  
HC: RC RQ: D1 V1 A1

##### Materials

SM: D2 P2 T1 EQ: S1 N1

##### Functions

MA: D2 R3 M3 L3  
PA: U1 C1 S2 W1 E3 SA: S1

##### Context

EC: L1 ,12,13 TC: A1 I2  
SS: 3 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: Many

7119 OTHER BULK MATERIALS AND FLUIDS HANDLING OCCUPATIONS

This residual unit group covers occupations, not elsewhere classified in Minor Group 711, concerned with handling bulk and fluid materials.

**Activities include** controlling movements of materials by operating control panel in central control room; loading and unloading of fluids; loading, unloading and moving bulk materials; operating front-end loaders; operating conveyor belts; patrolling work area; operating pumps and valves to transfer gases and liquids, such as oil, caustic solution and liquid sugar and fluidised solids, such as cement and lime.

7119-A CONTROL ROOM OPERATOR, BULK MATERIALS AND FLUIDS HANDLING

Operates control panel in central control room to regulate flow of materials to outloading areas, to blend materials to meet customers' specifications and control loading of material; performs any combination of the following duties.

Operates push buttons, switches, levers and dials on control panel to start and stop equipment, such as pumps, conveyor belts, elevators, stackers, reclaimers, ship loaders and train loaders in correct sequence; or to switch operation to and from local or computer control. Studies production schedules, adjusts controls and advises plant operators to open valves, draw specified amounts and proportions of materials onto conveyors, operate trippers to re-route materials, or start up and stop equipment using local control. Monitors ammeters, annunciator claims and lights on console and mimic panel, closed circuit television, computer printout and visual display unit to determine load on equipment, rate of flow of materials, weight of material and amount of material in storage. Liaises with plant operators, foremen/women and maintenance personnel to determine the nature of, and correct, malfunctions. Shuts down equipment, alters rate of feed or re-routes materials until malfunctions corrected. Compiles shift operating reports, recording level of productivity and breakdowns.

May be designated according to type of material handling, or type of system controlled,  
Control Room Operator, Grain Handling  
Control Room Operator, Ore Handling  
Control Room Operator, Tank Farm

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T2m E2-5y
HC: RC	RQ: D1 V1 A1
<i>Materials</i>	
SM: D1 P2 T1	EQ: KV
<i>Functions</i>	
MA: D2 R3 M3 L3	
PA: U1 C1 S1 E2	SA: S1
<i>Context</i>	
EC: L1	TC: A1 I2 R2
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: Many

7119-Z BULK MATERIALS AND FLUIDS HANDLING OCCUPATIONS nec

This residual group covers bulk materials handling occupations, not elsewhere classified in Unit Group 7119, e.g.  
Positioner Operator Retarder Operator

## MINOR GROUP 712

### STORES AND PACKAGING OCCUPATIONS

Stores and Packaging Occupations are classified in the following unit groups.

- 7120 Foremen/women, Stores and Packaging Occupations
- 7121 Storemen/women and Related Occupations
- 7122 Machine Packaging Occupations
- 7123 Non-Machine Packaging Occupations

#### 7120 FOREMEN/WOMEN, STORES AND PACKAGING OCCUPATIONS

This unit group covers occupations concerned with supervising workers engaged in packaging goods.

**Entry Requirements** 1-5 years' experience.

**Activities include** performing duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### 7120-A FOREMAN/WOMAN, STORES AND PACKAGING OCCUPATIONS

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Supervises and co-ordinates activities of workers assembling containers, covering articles or products with protective or other materials, filling, sealing, closing and labelling packages or products, and tending, filling, packaging and wrapping machines. Other activities supervised include: receiving, unpacking, weighing, storing, moving and dispatching goods coming into or going out of store or warehouse and the operation of specialized equipment such as fork lifts and stacker cranes, in stores area. Patrols work area, ensures plant operating correctly, and notifies maintenance area of malfunctions.

May supervise workers engaged in a particular work area or activity or working on a particular product line and be designated according, e.g.

Foreman/woman, Bottling      Foreman/woman, Fruit Juice  
Foreman/woman, Packaging  
Foreman/woman, Stores

#### *Job Content Factors*

##### *Workers*

FP: GE NFR	IP: E1-5y
HC: ESR	RQ: D1 V1

##### *Materials*

SM: D2 P1 T2	EQ: S2 N2
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##### *Functions*

MA: A1 P2 D2 R3 M3 L2	
PA: U2 W1 BV E2	SA: L1 B1 R2-3

##### *Context*

EC: L1 ,06,09	TC: A1 I2 R2
SS: 4	SC: 7 (vy)

LMS: NA (0 %SE)

ASIC: Many

#### 7121 STOREMEN/WOMEN AND RELATED OCCUPATIONS

This unit group covers occupations concerned with handling goods coming into or going out of a store or warehouse.

**Entry Requirements** no formal requirements.

**Activities include** handling goods coming into or going out of store or warehouse; and assisting in these duties.

7121-A STOREMAN/WOMAN

Receives, unpacks, weighs, stores, moves, packs, dispatches and generally handles goods coming into or going out of store or warehouse, performing any combination of the following duties sometimes on a rotational basis.

Receives incoming goods, unpacks goods and checks items delivered against relevant documents, noting damages or discrepancies; arranges return of damaged or oversupplied goods. Labels goods with details of storing location. Operates hydraulic or electric pedestrian pallet truck, fork lift, lift truck, stacker crane, reach truck, or turret truck to lift and carry palletised loads to place and remove items on high levels and to operate in small aisles. Hooks loaded trolley onto towveyor system or onto electronically guided equipment. Places goods onto conveyor, uses pendant controlled overhead crane or moves goods manually using hand truck. Places goods in designated bins or racks or stacks bulky items on appropriate area of floor. Records binning location. Picks goods from bins, counting items and checking items off picking list. Notes any items out of stock. Picks orders whilst working from specialised equipment such as manually or electronically guided order pickers. Packs, labels, weighs goods, seals box using tape, string or strapping. Stacks goods in dispatch area. Issues stores over counter. Assists with regular stock-take.

May operate visual display unit to obtain details of location or quantity of item in stock. May specialize in receiving goods picking orders, packing orders, dispatching goods, or operating specialized equipment, such as stacker cranes or order pickers; may perform sales duties at issuing counter, duties of fork lift, reach or turret truck driver, or duties of tally clerk in addition to duties of storeman/woman; may work in store dealing with a particular type of product such as medical supplies or automobile spare parts, or may work under extremely low temperatures in freezer store; and be designated accordingly, e.g.

- Receivals Storeman/woman  
Storeman/woman Packer  
Sales Storeman/woman  
Medical Storeman/woman  
Warehouseman/woman  
Storeman/woman/Stacker Crane Operator  
Spare Parts Storeman/woman  
Storeman/woman, Engineering
- Order Picker  
Dispatch Storeman/woman  
Storeman/woman Driver  
Freezer Storeman/woman

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE9y	IP: T1-6w
HC: RCE	RQ:
<i>Materials</i>	
SM: D2 P2 T1	EQ: W2
<i>Functions</i>	
MA: P2 D3 R4 M3 L3	
PA: U2 H2 S2 W1 E3	SA: A2 S2 B2 R4
<i>Context</i>	
EC: L1	TC: A1 I2 T2
SS: 3	SC: 4 (vy)
LMS: ? (0 %SE)	ASIC: Many

7121-B STORES ASSISTANT  
Assistant Storeman/woman

Assists storeman/woman to receive, unpack, weigh, store, move, pack, dispatch and generally handle goods coming into or going out of store or warehouse.

Assists storeman/woman with the receipt of stores. Assists driver to unload vehicles, opens packages and removes contents. Stows goods in correct bins as directed, and stacks bulky items on designated floor area. Packs goods to be dispatched, using packaging most appropriate for type of article and mode of transport. Assists storeman/woman with dispatch of goods. Uses manually operated materials handling equipment such as hydraulic pallet lifters and hand trucks to move goods.

May specialise in a particular aspect of stores work and be designated, e.g.

- Helper (Stores)
- Shelf-Stocker

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T1-4w
HC: R	RQ: D1 V1
<i>Materials</i>	
SM: T1	EQ: N1 W1
<i>Functions</i>	
MA: D3 R4 L3	
PA: U1 H1 W1 E4	SA: S1
<i>Context</i>	
EC: L1	TC: A1 I2 R1
SS: 2	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: Many

7122 MACHINE PACKAGING OCCUPATIONS

This unit group covers occupations concerned with packaging and packing items by machine.

**Entry Requirements** no formal requirements.

**Activities include** operating and attending a variety of machines that fill and seal containers, label containers, or wrap bundle and bale products and materials; hand packing materials; and cleaning work areas.

7122-A PACKAGING LINE MACHINE  
OPERATOR, GENERAL (EXCEPT FOOD  
AND CHEMICALS)

Tends machine that performs one or more packaging functions, such as cleaning, bundling, filling, marking, labelling, sorting, tying, sealing, packing, weighing, wrapping, or closing containers to pack a variety of products, performing any combination of the following duties.

Starts machine and observes operation to detect malfunctions of machine and off-bearing mechanisms. Makes adjustments, such as opening valves, and setting guides. Cleans away damaged products or containers. Inspects filled containers to ensure that product is packaged according to specifications. Feeds product to conveyors, hoppers or other feeding devices, or positions and holds container in machine and presses pedal or button to fill, label, sew, seal or staple containers, and unloads packaged products. Replenishes supplies, such as

wrapping paper, plastic sheets, boxes, thread, cellophane rolls, cartons, bottles, glue, ink or labels, mounting supplies on spindles or placing them in hopper or other feeding devices. Stencils information on container. Tallies quantity packaged or records other information, such as size, weight and type of product packaged. Keeps work area clean.

**Job Content Factors****Workers**

FP: GE NFR

IP: T2-6w

HC: R

RQ: D1 V1

**Materials**

SM: T1

EQ: N1 M1

**Functions**

MA: D3 R4 L3

PA: U1 C1 H1 W1 E3

SA: S1 L1

**Context**

EC: L1 C04,09

TC: A1 I2 R1

SS: 3

SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: Many

**7122-B BALING OR COMPRESSION MACHINE OPERATOR**

Operates machinery which compresses and binds material such as wool, skins, paper, insulating materials; or further compresses and packages bales or other material into smaller sizes for shipment and transportation; performs any combination of the following duties.

Loads materials in compression chamber of baling machine manually, or uses automatic feeding device. Moves lever or electric switch, causing ram to compress material. Threads and fastens tie bands or straps around bale while bale still under compression; or changes plastic or hessian bag to outlet of machine. Releases ram to remove or eject bale from chamber.

May move bales to storage area using hand or powered lift truck. May weigh and record quantity and type of materials baled, and stencil or tag bales. May line compression chamber of baling machine with paper, cloth or other covering to protect material in bale or sew or tie wrapping in place after baling.

**Job Content Factors****Workers**

FP: GE NFR

IP: T1-4w

HC: R

RQ: D1 V1

**Materials**

SM: T1

EQ: N1 M1 W2

**Functions**

MA: D3 R4 M3 L3

PA: U1 C2 H1 W1 E4

SA: S1 L1

**Context**

EC: L1 ,09

TC: A1 I2 R1

SS: 2

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: Many

**7122-C STRAPPING MACHINE ATTENDANT**

Operates machine that straps bundles of materials or cartons with metal or plastic straps.

Positions material to be strapped on bed of strapping machine, stacking articles if required. Starts machine and presses foot pedal to activate machine to wrap and tie binding material around products and cut it free from roll. Moves product and repeats process until satisfied parcel is secure. Stacks strapped products onto pallet or conveyor. Replaces roll of strapping material and feeds strapping through guides of machine.

May wrap protective covering around articles and place protective cardboard around edges of stack prior to strapping.

**Job Content Factors****Workers**

FP: GE NFR

IP: T1w

HC: R

RQ: D1 V1

**Materials**

SM: T1

EQ: N1 M1

**Functions**

MA: D3 R4 L3

PA: U1 C1 H1 W1 EV

SA: S1 L1

**Context**

EC: L1 C09

TC: A1 I2 R1

SS: 2

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: Many

**7122-D AUTOMATIC PALLETISER/DEPALLETISER OPERATOR**

Operates equipment which stacks products in layers and in pre-determined pattern onto pallets or unloads pallets of empty cans, bottles or packages ready for packaging line.

Starts equipment and conveyor belts. Monitors stacking to ensure correct pattern and correct number of layers maintained. Stops equipment to clear blockages, removing any damaged packages. Removes wrapping or strapping of pallets of empty bottles or cans. Operates feed conveyor and depalletiser. Erects any fallen cans or bottles which may jam equipment. Notifies supervisor of problems. Cleans work area.

May operate other equipment, such as carton filling closing and gluing machines, on packaging lines.

**Job Content Factors****Workers**

FP: GE NFR

IP: T1-2w

HC: R

RQ: D1 V1

**Materials**

SM: T1

EQ: N1 M1

**Functions**

MA: D3 R4 L3

PA: U1 H1 W1 E2

SA: S1 L1

**Context**

EC: L1 C09

TC: A1 I2 R1

SS: 2

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: Many

**7122-E SACK/BAG FILLER**

Attends machine that fills sack or bag with bulk material such as lime, cement, sugar or rice.

Shakes bag open and places and clamps it under chute of feed hopper. Presses foot pedal or hand lever to activate machinery to release material into sack. Tops up level of material in bags, to make up desired weight. Moves self-closing bags onto conveyor to dispatch or storage area, or moves open sacks to sewing area. Folds end of sack, clamps sewing unit in place and starts sewing device which automatically closes and sews top of bag. Cleans and sweeps work area.

May operate other packaging machines as required. May weigh filled sacks using platform scales. May check levels of material in bins or hopper. May be designated according to material packed, e.g.

Cement Sacker

Lime Sacker

Sugar Sacker

**Job Content Factors****Workers**

FP: GE NFR

IP: T1-4w

HC: R

RQ: D1 V1

**Materials**

SM: T1

EQ: N1 M1

**Functions**

MA: D3 R4 L3

PA: U1 C2 H2 W1 EV

SA: S1 L1

**Context**

EC: L1 C09,06,02

TC: A1 I2 R1

SS: 2

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: Many

**7122-F CARTON PACKING MACHINE ATTENDANT**

Operates machine which automatically packs articles into cardboard containers and glues or secures container.

Manually folds cartons and places on feed conveyor or places bundles of flat cartons into feeder. Starts packaging machine and observes flow of cartons into and out of machine. Clears jams and restarts machine. Ensures cartons being filled correctly and no articles fallen over. Removes damaged cartons. Observes gluing and sealing of cartons and adjusts flow of glue. Checks temperature of glue. Reports malfunctions to foreman/woman. Keeps a record of cartons used. Cleans work area.

May adjust carton holding guides to accommodate cartons of various sizes. May operate other equipment on packaging line. May cart bundles of cartons using hand truck or fork-lift.

**Job Content Factors**

**Workers**

FP: GE NFR IP: T1-2w  
HC: R RQ: D1 V1

**Materials**

SM: T1 EQ: N1 M1 V2 W2

**Functions**

MA: D3 R4 M3 L3  
PA: U1 C2 H2 W1 E3 SA: S1 L1

**Context**

EC: L1 C09 TC: A1 I2 R1  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE) ASIC: 21,23,24,26

**7122-G PACKAGING MACHINE FEEDER**

Feeds packaging machine with materials to be packaged and/or with packaging materials.

Starts conveyor. Feeds materials such as biscuits, cakes, insulation, cartons and containers at specified rate while machine is operating. Ensures materials feed into machine neatly and do not jam.

May count articles, feeding specified number only into machine or feeding machine at particular rate. May advise machine operator when ready. May operate packaging machines.

**Job Content Factors**

**Workers**

FP: GE NFR IP: T1-2w  
HC: RC RQ: D1 V1

**Materials**

SM: T1 EQ: M2

**Functions**

MA: D3 R4 M3 L3  
PA: U1 C2 W1 E3 SA: S1 L1

**Context**

EC: L1 C09 TC: A1 I2 R1  
SS: 2 SC: 4 (vy)

LMS: NA (0 %SE) ASIC: Many

**7122-Z MACHINE PACKAGING OCCUPATIONS nec**

This residual group covers occupations concerned with machine packaging, not elsewhere classified in Unit Group 7122, e.g.

Publishing Hand

**7123 NON-MACHINE PACKAGING OCCUPATIONS**

This unit group covers occupations concerned with non-machine packaging occupations.

**Entry Requirements** no formal requirements.

**Activities include** packing and packaging materials and products by hand; and packing furniture and household goods in crates or cartons lined with protective material to secure goods and prevent damage during transit.

**7123-A HAND PACKER (GENERAL)**

Packs or packages material and products by hand, performing any combination of the following duties.

Obtains materials and assembles cartons or containers. Inserts fillers and liners. Wraps protective material around product. Packs containers with product, counting, weighing or measuring amount and adjusting quantity. Glues, seals and closes boxes or cartons. Stamps, stencils or pastes pre-printed labels either on product or container. Sorts packaged product by weight or content. Visually inspects materials, products and containers at each stage of packaging process. Records information such as weight, time and date of filled containers. May start, stop or regulate conveyor to receive or dispose of packaged products. May replenish packing material such as boxes, cartons, containers, crates, wrapping paper, threads and staples. May be designated according to product packed, e.g.

Fruit/Vegetable Packer Glace Fruit Packer  
Meat Packer Meat Wrapper  
Shirt Packer  
Hand Packer (Food Products)

**Job Content Factors**

**Workers**

FP: GE NFR IP: T1-2w  
HC: RC RQ: D1 V1

**Materials**

SM: D2 T1 EQ: S1 N1 V1

**Functions**

MA: D3 R4 M3 L3  
PA: U1 H1 W1 E3 SA: S1 L1

**Context**

EC: L1 TC: A1 R1  
SS: 3 SC: 3 (vy)

LMS: NA (0 %SE) ASIC: Many

**7123-B FURNITURE PACKER**

Packs furniture and household goods in crates or cartons lined with protective material to secure goods and prevent damage during transit.

Assembles cardboard cartons and seals one end using adhesive tape. Lines cartons and tea chests with material. Wraps small breakable items in protective paper before packing into cartons or chests. Places material such as shredded paper between items in container to provide cushioning effect. Assists other workers to pack and secure furniture and other items in crates or cartons. Seals cartons or crates using tape or hammer and nails. Stencils or tags cartons with identification such as code number or name and destination. Records condition of all furniture packed, number of cartons, date and destination or inventory list. Transfers packed crates and cartons to loading area by hand or using hand truck.

Job Content Factors

Workers	
FP: GE NFR	IP: T1m
HC: R	RQ: D1 V1

Materials	
SM: P2 T1	EQ: S1 N1 W1
Functions	
MA: D3 R4 L3	
PA: U1 C1 H1 W1 B2 E4	SA: S1 L1
Context	
EC: L1 ,13	TC: A1 I2 R1
SS: 3	SC: 3 ( vy)
LMS: NA (0 %SE)	ASIC: 254,510

7123-Z NON-MACHINE PACKAGING OCCUPATIONS nec

This residual group covers occupations concerned with non-machine packaging occupations, not elsewhere classified in Unit Group 7123, e.g. those who use hand tools, such as hand strappers and hot glue guns.

**MINOR GROUP 719**  
**OTHER MATERIALS HANDLING OCCUPATIONS**

Other Materials Handling Occupations are classified in the following unit groups.

- 7190 Foremen/women, Other Materials Handling Occupations
- 7191 Freight Handling Occupations
- 7192 Furniture Removalists
- 7193 Fork Lift Drivers
- 7199 Other Materials Handling Occupations

**7190 FOREMEN/WOMEN, OTHER MATERIALS HANDLING OCCUPATIONS**

This unit group covers occupations not elsewhere classified in Minor Group 719, concerned with supervising and co-ordinating activities of workers engaged in storing goods, packing goods, handling freight and performing other materials handling functions.

**Entry Requirements** Year 9-10 with 1-5 years' experience and service with the particular employer.

**Activities include** patrolling work area to ensure plant operating correctly; ensuring production schedules are met; and co-ordinating activities of workers engaged in storing, packaging, loading and unloading goods for transport and handling materials.

**7190-A FOREMAN/WOMAN, FREIGHT  
LOADING/UNLOADING OCCUPATIONS**  
**Foreman/woman, Freight Handlers**

Supervises and co-ordinates activities of workers, such as fork lift drivers, crane drivers and freight handlers engaged in loading and/or unloading freight trucks, rail cars and ships.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN. Allocates particular materials handling equipment, such as fork lifts, to operators. Supervises loading to ensure vehicles loaded in correct manner, goods weighed and vehicle not overloaded, and weight distributed evenly over axles of vehicles.

May specialise in supervising workers in a particular industry, and be designated accordingly, e.g.  
Foreman/woman, Road Freight Handling Occupations  
Freight Centre Manager, Rail

Job Content Factors	
<i>Workers</i>	
FP: GE9-10y	IP: E1-5y
HC: ESR	RQ: S2 D1 V1
<i>Materials</i>	
SM: D2 P1 T2	EQ:
<i>Functions</i>	
MA: A1 P2 D2 R3 M3 L3	
PA: W1 B2 E2	SA: S1 B1 R3-4
<i>Context</i>	
EC: L2 C09	TC: A1 I2 R2
SS: 5	SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: 51,52,53,54,55

**7190-Z FOREMEN/WOMEN, OTHER  
MATERIALS HANDLING  
OCCUPATIONS nec**

This residual group covers materials handling and related foremen/women occupations, not elsewhere classified in Unit Group 7190.

**7191 FREIGHT HANDLING OCCUPATIONS**

This unit group covers freight handling and related occupations concerned with loading and unloading freight into and out of containers, trucks, ships, rail cars and aircraft.

**Entry Requirements** no formal requirements.

Occupation 7123-B : Furniture Packer

**7192-A FURNITURE REMOVALIST/DRIVER**

Moves household and office furniture and equipment, to and from homes, offices and storage establishments.

Drives removal truck or van to location. Packs small items into cartons or tea chests. Wraps breakable items in paper and places shredded paper in carton to provide cushioning between items. Seals containers. Carries articles to vehicle, using special trolleys to handle items such as fridges, pianos, safes and photocopiers. Arranges articles in van to form compact load, loading heavy items first and using padding, ropes and straps to secure load and prevent damage or breakage. Drives vehicle over short or long distances to destination. Removes ropes, straps and padding and unloads van at destination. If required, checks items off inventory as goods unloaded, noting any damage. Collects payment if required.

May specialise in office removals and be designated accordingly, e.g.

Office Removalist

**Job Content Factors**

**Workers**

FP: GE NFR IP: T3m  
HC: REC RQ: L1 S1 D1 V1

**Materials**

SM: D2 P2 T1 EQ: S1 N1 V1 W1

**Functions**

MA: P2 D3 R4 M3 L3  
PA: U1 C1 H1 S2 W1 E4 SA: S1 P1 B1 R0-4

**Context**

EC: T1 L4 C13 TC: A1 I1 R2  
SS: 3 SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 5105

**7192-B FURNITURE REMOVALIST'S ASSISTANT**

Assists furniture removalist/driver to pack goods and load and unload vehicle so that furniture and equipment may be moved to and from homes, offices and storage establishments.

Performs non-driving duties as described under 7192-A FURNITURE REMOVALIST/DRIVER under direction of same.

**Job Content Factors**

**Workers**

FP: GE NFR IP: T1-3m  
HC: R RQ: D1 V1

**Materials**

SM: T1 EQ: S1 N1 W1

**Functions**

MA: D3 R4 L3  
PA: U1 C1 H1 W1 E4 SA: S1

**Context**

EC: T1 L4 C13 TC: A1 I1 R1  
SS: 2 SC: 3 (vy)

LMS: NA (0 %SE)

ASIC: 5105

**7192-Z FURNITURE REMOVALISTS nec**

This residual group covers furniture removalists and related occupations, not elsewhere classified in Unit Group 7192.

**7193 FORK LIFT DRIVERS**

This unit group covers occupations concerned with operating fork lifts, straddle trucks and specialized equipment, such as stacker cranes and high density order pickers to lift, stack and move objects.

**Entry Requirements** in most cases possession of appropriate certificate of competency.

**Activities include** operating controls to drive or move equipment; aligning lift mechanism with item to be moved; and moving and stacking goods.

**7193-A FORK LIFT DRIVER  
Fork Truck Driver; Lift Truck Driver**

Operates diesel, liquified petroleum gas, petrol or battery powered truck equipped with hydraulic fork lift or lifting platform to pick up, transport, lift or stack articles such as crates, palletised goods, cartons, bales and shipping containers in warehouses, factories, storage yards, timber yards, shipping terminals and other locations.

Starts vehicle using key or push button start. Assesses weight and centre of gravity of load to be moved to ensure that the fork lift will not become overloaded or unstable when loaded. Moves levers and pedals to control movement of tines (fork) of fork lift, to tilt mast and to operate reach mechanism of reach-truck type fork lift. When stacking articles or removing articles from stack, aligns truck with article. Raises and lowers tines to desired position and moves truck and/or reach mechanism of reach-truck towards stack so that tines are inserted into pallet or container, or load is positioned on top of stack. Positions load against heel of forks to maintain stability. When load obscures view, drives fork lift in reverse, looking over shoulder to ensure path clear. Parks fork lift on

level ground and ensures tines lowered as far as possible. Regularly checks gauges, such as hour meter, fuel gauge and hydraulic oil pressure gauge or light. Checks hydraulic hoses and connections for damage or leaks, checks tyres for correct inflation and tests warning devices. Reports mechanical problems, unsound pallets and unstable loads to foreman/woman.

May connect battery of electric truck to battery charger, or change gas cylinder of gas powered fork lift. May record daily operating details. May operate trucks which run on rail or electronic guidance system to enable movement in very narrow aisles. May work in confined areas, such as narrow aisled warehouses and within rail wagons, shipping containers or trucks. May operate fork lift fitted with special attachment, such as barrel clamp, container handling attachment, jib and hook attachment, ram attachment used for handling hollow objects, adjustable forks, side shift, push and/or pull attachment, bale grab, drum clamp and timber grapple. May specialise in the operation of fork lifts with special features.

such as reach mechanism, pivoting mast (turret) or work platform used for picking orders and be designated accordingly, e.g.

Order Picker Operator      Reach Truck Driver  
Turret Truck Driver

#### Job Content Factors

##### Workers

FP: GE NFR      IP: T1-3m  
HC: R      RQ: SV D1 V1

##### Materials

SM: T1      EQ: V1

##### Functions

MA: D3 R4 L3  
PA: U1 C1 H1 S1 E3      SA: S1 L1

##### Context

EC: L4 C09,13      TC: A1 IV R1  
SS: 2      SC: 2 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 7193-B STRADDLE CARRIER OPERATOR

Operates industrial truck that carries loads of materials or containers beneath its elevated frame in locations such as timber yards and shipping terminals.

Drives vehicle astride objects to be carried, such as timber or shipping containers. Moves levers to grasp load, raise and hold it a short distance above ground. Drives machine to

specified delivery point, and moves levers to lower load to ground. Stacks shipping containers, the height of stack being determined by height of straddle frame. Regularly checks gauges, such as fuel, water temperature and water gauges, checks tyres for correct inflation and tests warning devices. Reports mechanical problems to foreman/woman.

#### Job Content Factors

##### Workers

FP: GE NFR      IP: T3-4m  
HC: R      RQ: S1 D1 V1

##### Materials

SM: D2 T1      EQ: V1

##### Functions

MA: D3 R4 M3 L3  
PA: U1 C1 S1 B2 E3      SA: S1 L1

##### Context

EC: L4 ,09      TC: A1 IV R2  
SS: 3      SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 030,253,51,52,53

### 7193-Z FORK LIFT DRIVERS nec

This residual group covers operators of fork lifts and related equipment not elsewhere classified in Unit Group 7193, e.g.

High Density Order Picker Operator  
High Density Rack/Aisle Stacker Operator  
Stacker Crane Operator

## 7199 OTHER MATERIALS HANDLING OCCUPATIONS

This unit group covers occupations not elsewhere classified in Major Group 71 concerned with handling materials.

**Activities include** manually moving materials and tallying goods; and loading, unloading, conveying and distributing heavy materials within plant.

### 7199-Z MATERIALS HANDLING OCCUPATIONS nec

occupations, not elsewhere classified in Major group 71.

This residual group covers other materials handling

## **SUPER GROUP 8**

### **Basic Manual Workers**

Basic Manual Working Occupations are classified in the following major group.

80 Basic Manual Working Occupations

## **MAJOR GROUP 80**

### **BASIC MANUAL WORKING OCCUPATIONS**

Basic Manual Working Occupations are classified in the following minor groups.

- 800 Construction and Communications Labourers
- 801 Mine Labourers
- 802 Factory Hands/Labourers
- 803 Agricultural and Forestry Labourers
- 809 Other Basic Manual Working Occupations

# 80 BASIC MANUAL WORKING OCCUPATIONS

## 800 CONSTRUCTION AND COMMUNICATIONS LABOURERS

### 8000 CONSTRUCTION AND COMMUNICATIONS LABOURERS

8000-A Labourer, Building Site  
8000-B Labourer, Electrical Power and Communications  
8000-C Labourer, Earthmoving  
8000-D Labourer, Paving and Surfacing  
8000-E Labourer, Railway Track  
8000-F Survey Hand

## 801 MINE LABOURERS

### 8010 MINE LABOURERS

8010-A Labourer, Quarry/Open Cut Mine  
8010-B Labourer, Underground Mine  
8010-C Labourer, Mineral Ore Treating

## 802 FACTORY HANDS/LABOURERS

### 8020 FACTORY HANDS/LABOURERS

8020-A Factory Hand/Labourer, Metal Processing  
8020-B Factory Hand/Labourer, Wood Processing  
8020-C Labourer, Sawmill  
8020-D Factory Hand/Labourer, Wood Products Fabricating  
8020-E Factory Hand/Labourer, Pulp, Papermaking and Paper Product Fabricating  
8020-F Factory Hand/Labourer, Chemical Plant  
8020-G Factory Hand/Labourer, Clay Processing  
8020-H Factory Hand/Labourer, Cement Plant  
8020-I Labourer, Meatworks  
8020-J Factory Hand/Labourer, Dairy Processing  
8020-K Labourer, Laundry  
8020-L General Hand, Printing  
8020-M Labourer, Hide and Skin Processing  
8020-Z Factory Hands/Labourers nec

## 803 AGRICULTURAL AND FORESTRY LABOURERS

### 8030 AGRICULTURAL LABOURERS

8030-A Farm Labourer  
8030-B Labourer, Fruit and Vegetable Growing

### 8031 FORESTRY LABOURERS

8031-A Labourer, Forestry

## 809 OTHER BASIC MANUAL WORKING OCCUPATIONS

### 8090 OTHER BASIC MANUAL WORKING OCCUPATIONS

8090-A Truck Driver's Offsider  
8090-B Garbage Collector

## MINOR GROUP 800 CONSTRUCTION AND COMMUNICATIONS LABOURERS

Construction and Communications Labourers are classified in the following unit group.

8000      Construction and Communications Labourers

### 8000    CONSTRUCTION AND COMMUNICATIONS LABOURERS

This unit group covers basic manual working occupations concerned with labouring predominantly on building, construction and communications projects.

**Entry Requirements** no formal entry requirements.

**Activities include** performing duties as described under Master Title LABOURER; and cleaning equipment and work areas.

#### 8000-A      LABOURER, BUILDING SITE

Performs any combination of the following basic duties on building sites.

Performs duties as described under Master Title LABOURER. Loads and unloads building materials. Moves materials between work areas, as directed. Shovels and rakes earth. Erects barricades and places markers and lights in designated positions to isolate and protect work areas. Sorts, cleans and stacks salvaged materials. Removes rubble and accumulated debris from building site, using rake, shovel and wheelbarrow.

May perform a single task and be designated accordingly, e.g.  
Brick Cleaner

##### *Related Occupations*

Unit Group 6891      : Builders' Labourers

##### *Job Content Factors*

###### *Workers*

FP: GE NFR	IP: T1-3w
HC: R	RQ: V2

###### *Materials*

SM: P2 T1	EQ: S1 N1
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###### *Functions*

MA: D3 R4 L3	SA: S2 L2
PA: U1 C2 H1 W1 E4	

###### *Context*

EC: M1 L2 C02,04,12	TC: A1 I2 R1
SS: 2	SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 411

#### 8000-B      LABOURER, ELECTRICAL POWER AND COMMUNICATIONS

Performs any combination of the following duties assisting in the installation and maintenance of electrical power, lighting and communication equipment.

Performs duties as described under Master Title LABOURER. Places street barricades and safety markers around open manholes and work pits, and below workers on overhead lines, to prevent accidents. Loads and unloads materials, tools and equipment. Digs trenches, places shoring,

and lowers tools and materials to workers in excavations. Breaks up roadways and pavements to facilitate installation and maintenance of equipment. Trims tree limbs and cuts brush from right-of-way.

May treat underground portion of transmission poles with chemical preservative. May be designated according to nature of service, e.g.

Labourer, Communication/Telecommunication Installation  
Labourer, Electrical Power Installation

##### *Related Occupations*

Unit Group 6190      : Electrical/Telecommunication  
Trades Assistants

##### *Job Content Factors*

###### *Workers*

FP: GE NFR	IP: T1w
HC: R	RQ:

###### *Materials*

SM: T1	EQ: N1 M2 VV W2
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###### *Functions*

MA: D3 R4	SA: S2 L2
PA: U1 C2 H1 W1 E4	

###### *Context*

EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 3610

#### 8000-C      LABOURER, EARTHMOVING

Performs any combination of the following manual duties in excavating earth materials, clearing and levelling sites, and digging irrigation ditches and channels.

Performs duties as described under Master Title LABOURER. Burns brush and removes sticks, rocks and other foreign material to clear site. Drives stakes into ground with heavy hammer to indicate designated points of construction site, according to instructions. Digs post holes, using post-hole digger or long handled shovel. Spreads and levels dirt, gravel and sand on roadways and driveways, trench bottoms and similar locations using pick and shovel. Trims sides and squares corners not reached by excavating machine. Shovels excavated material onto conveyor, wheelbarrow or truck for removal from excavation. Directs

truck driver to spot where load is to be dumped, using hand signals, and levels dumped material with shovel. Rolls, lifts or manually guides culvert sections into position. Saturates loose dirt fill with water to settle and compact fill.

May be designated according to particular task, e.g.  
Tipman/woman, Earthmoving

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: R	RQ:
<i>Materials</i>	
SM: T1	EQ: N1 M2 VV W2
<i>Functions</i>	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
<i>Context</i>	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 411,412

### 8000-D LABOURER, PAVING AND SURFACING

Performs any combination of the following duties in compacting and smoothing layers of material, and spreading and levelling bituminous paving material on road, runway, parking area and similar construction and maintenance projects.

Performs duties as described under Master Title LABOURER. Sweeps pavement bases prior to laying asphalt surface. Sprinkles or brushes hot or cold-mix asphalt over surfaces to be paved or repaired, to bond asphalt topping to base. Operates tank-truck distributor or hose to spray tar and road oils and emulsions on graded surface prior to paving. Trips tail-gate lever to discharge hot-mix asphalt into hopper of paving machine, or spread stone chips, gravel or cold-mix asphalt onto road surface. Cuts and trims damaged surfaces using jack-hammer, or softens edges of area to be repaired with blowtorch. Sweeps and sprinkles damaged surface with liquid asphalt or other bonding agent. Shovels asphalt mix into areas inaccessible to paving machines, and levels and compacts mix using rake and hand tamper. Erects and dismantles barricades. Directs flow of traffic. Loads and unloads equipment and cleans work site.

May specialise in road maintenance, or perform a particular task, and be designated accordingly, e.g.

Asphalt Worker, Construction  
Bitumen Worker, Construction  
Labourer, Road Maintenance  
Road Maintenance Worker  
Patrolman/woman, Road Maintenance

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: R	RQ:
<i>Materials</i>	
SM: T1	EQ: N1 M2 VV W2
<i>Functions</i>	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
<i>Context</i>	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 411

### 8000-E LABOURER, RAILWAY TRACK

Performs any combination of the following manual duties working as a member of railway track construction or maintenance crew.

Performs duties as described under Master Title LABOURER. Transports tools and equipment on push or handcar. Clears loose material from walls, roof and tunnel bottom to prepare track road bed when working underground. Carries and places ties at specified intervals across roadbed and positions on ties, using gauge and iron bar to lever rails into position. Drives spikes with sledge-hammer to fasten rails to ties. Assists fettlers and platelayers to lift tie and track, and tamp ballast under tie to raise track. Operates equipment to break up pavement when replacing ties at crossings. Services switch lamps as required. Cuts weeds and brush along side of track using scythe and power cutters.

May perform a particular task and be designated accordingly, e.g.

Packer, Railway

#### Related Occupations

Unit Group 6803 : Railway Track Construction Occupations

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: R	RQ:
<i>Materials</i>	
SM: T1	EQ: N1 M2 VV W2
<i>Functions</i>	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
<i>Context</i>	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 520

### 8000-F SURVEY HAND Surveyors' Chainman/woman

Performs any combination of the following duties to assist surveyor as member of a survey party.

Performs duties as described under Master Title LABOURER. Cuts, marks, tags and drives or embeds stakes into ground to indicate grade settings, markers or boundaries. Uses steel measuring tapes to measure distances between survey points as indicated by surveyor. Marks measured point. Holds levelling staff in vertical position at point indicated by surveyor to determine elevation. Marks trees or terrain to indicate survey line. Clears brush and debris from line of survey. Transports tools and supplies to work area. Calls out or notes survey readings.

#### Job Content Factors

<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: R	RQ:
<i>Materials</i>	
SM: T1	EQ: N1 M2 VV W2
<i>Functions</i>	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
<i>Context</i>	
EC: T2 M1 L2 C01,06,02	TC: A1 S2 I2 R1
SS: 4	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: Many

## MINOR GROUP 801 MINE LABOURERS

Mine Labourers are classified in the following unit group.

8010 Mine Labourers

*Related Occupations*

Major Group 53 : Mining Occupations

### 8010 MINE LABOURERS

This unit group covers basic manual working occupations concerned with labouring in the areas of mining and mineral ore treating.

**Entry Requirements** no formal entry requirements.

**Activities include** performing duties as described under Master Title LABOURER; cleaning equipment and work areas.

#### 8010-A LABOURER, QUARRY/OPEN CUT MINE Pit Crew Worker

Performs any combination of the following duties in an open-cut mine or quarry.

Performs duties as described under Master Title LABOURER. Moves power cables clear of tracks of electric face-shovels, drilling rigs and other heavy equipment at pit face. Erects, cleans and removes road guide posts and signs. Washes down haul trucks and other pit and quarry vehicles. Assists in cleaning ore crushing equipment. Assists drilling and blasting crew workers to transport materials and equipment and prepare sites.

May be designated according to type of open-cut mine or quarrying operation, e.g.

- Labourer, Bauxite Mine (Open Cut)
- Labourer, Drilling Rig
- Labourer, Iron Ore Mine (Open Cut)
- Labourer, Limestone Quarry

##### *Job Content Factors*

###### *Workers*

FP: GE NFR IP: T1w  
HC: R RQ:

###### *Materials*

SM: P2 T1 EQ: S1 N1

###### *Functions*

MA: D3 R4 L3 SA: L1  
PA: U1 C2 H1 W1 E4

###### *Context*

EC: M2 L2 C02,06,13 TC: A1 I2 R1  
SS: 2 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: 111,112,120

#### 8010-B LABOURER, UNDERGROUND MINE General Underground Mine Labourer

Performs any combination of the following duties working in an underground mine.

Performs duties as described under Master Title LABOURER. Supplies workers with materials, tools and equipment. Assists in erecting, dismantling and removing timber or steel retaining structures. Helps install air, water and ventilation piping system. Cleans work areas, and carries out basic maintenance on rail tracks using hand tools such as pick, shovel and pinch bar. Digs and maintains drainage ditches. Shovels muck, ore or rock into trucks, skips, or onto conveyors. Shovels up spillage. Assists in re-loading ore trucks using jacks, blocks and bars. Loads and unloads supplies to and from trucks on surface or underground.

May perform duties of 5309-B HYDRAULIC FILL OPERATOR and/or 5319-B CABLE HAND UNDERGROUND COAL MINE.

May perform a particular activity and be designated accordingly, e.g.

- Conveyor Belt Extension Hand
- Conveyor Belt Patrolman/woman
- Drain Digger, Underground Mine
- Level Cleaner, Underground Mine
- Supplyman/woman, Underground Mine
- Ventilation Hand, Underground Mine

##### *Job Content Factors*

###### *Workers*

FP: GE NFR IP: T1w  
HC: R RQ:

###### *Materials*

SM: T1 EQ: N1 M2 VV W2

###### *Functions*

MA: D3 R4 SA: S2 L2  
PA: U1 C2 H1 W1 E4

###### *Context*

EC: L4 C09 TC: A1 S2 I2 R1  
SS: 3 SC: 8 (vy)

LMS: NA (0 %SE)

ASIC: 111,112,120

**8010-C      LABOURER, MINERAL ORE TREATING**  
**Labourer, Ore Processing**

Performs any combination of the following duties in crushing, sampling, refining, loading and moving mineral ore and other materials.

Performs duties as described under Master Title LABOURER. Cleans work area using shovel, broom and high pressure steam or water hose. Works as a team member to clear blockages. Opens drum of heavy media and pours into sump at concentrator. Adds flocculants to thickener. Regulates flow of tailings from processing plant to waste dam for disposal. Constructs walls of tailings dam using waste sludge. Adds steel balls and rods to ball and rod machines respectively.

May be designated according to specific area of work, e.g.

Ballman/woman, Mineral Ore Treating  
 Concentrator Labourer

Plant Labourer, Mineral Ore Treating  
 Tailings Dam Labourer  
 Tailings Labourer, Mineral Ore Treating

**Job Content Factors**

**Workers**

<b>FP:</b> GE NFR	<b>IP:</b> T1w
<b>HC:</b> R	<b>RQ:</b>

**Materials**

<b>SM:</b> T1	<b>EQ:</b> N1 M2 VV W2
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**Functions**

<b>MA:</b> D3 R4	
<b>PA:</b> U1 C2 H1 W1 E4	<b>SA:</b> S2 L2

**Context**

<b>EC:</b> L4 C09	<b>TC:</b> A1 S2 I2 R1
<b>SS:</b> 3	<b>SC:</b> 8 (vy)

**LMS:** NA (0 %SE)

**ASIC:** Many

MINOR GROUP 802  
FACTORY HANDS/LABOURERS

Factory Hands/Labourers are classified in the following unit group.

8020      Factory Hands/Labourers

8020    FACTORY HANDS/LABOURERS

This unit group covers basic manual working occupations concerned with labouring predominantly indoor or undercover in manufacturing and production establishments.

**Entry Requirements** no formal entry requirements.

**Activities include** performing duties as described under Master Title LABOURER; cleaning equipment and work areas.

8020-A              FACTORY HAND/LABOURER, METAL  
PROCESSING

Performs any combination of the following duties in assisting workers engaged in the production of ferrous or non-ferrous products.

Performs duties as described under Master Title LABOURER. Sorts scrap metal. Dumps scrap into crusher or bundling machine. Feeds and offbears materials on equipment such as conveyors, pilers and loaders to charge furnaces, transport hot metal to rollers and stores finished products. Identifies finished products using tags or coloured paint. Scrapes carbon, dirt and metal particles from interiors of moulds. Cleans and assists in the relining of furnaces and soaking pits. Breaks up slag and metal spills using sledge and jack hammers. Cleans work areas using broom and shovel.

May assist in loading and unloading trucks, and packing products for shipment. May clean machinery using solvent, brush and air hose. May be designated according to particular function, e.g.

- Furnace Labourer
- Marker, Metal Processing
- Scrapman/woman, Metal Processing

*Related Occupation*

Minor Group 608      : Process Workers, Metal and  
Metal Products

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: R	RQ:
<i>Materials</i>	
SM: T1	EQ: N1 M2 VV W2
<i>Functions</i>	
MA: D3 R4	
PA: U1 C2 H1 W3 E4	SA: S2 L2
<i>Context</i>	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 ( vy)
LMS: NA (0 %SE)	ASIC: 29,31

8020-B              FACTORY HAND/LABOURER, WOOD  
PROCESSING

Performs any combination of the following duties in assisting workers processing wood to make plywood, veneer, chipboard and paper products.

Performs duties as described under Master Title LABOURER. Places logs or wood billets on equipment such as lathes or conveyors for processing into veneer, wood chip or pulp. Loads and unloads strips or sheets of veneer onto or from drying conveyors. Transports processed wood products to work areas where further processing activities are being undertaken. Takes loads of plywood panels to and from presser, trim saws and sanders. Assists in clearing blockages, cleaning machinery, and sweeping and hosing work areas.

May be designated according to duties performed, e.g.

- Feeder, Veneer Dryer
- Factory Hand/Labourer, Hardboard Manufacture
- Factory Hand/Labourer, Hot Press (Wood Processing)
- Factory Hand/Labourer, Particle Board Manufacture
- Factory Hand/Labourer, Plywood Manufacture
- Factory Hand/Labourer, Pulp Manufacture
- Factory Hand/Labourer, Veneer Dryer

*Related Occupations*

Minor Group 620      : Wood Processing and  
Machining Occupations

*Job Content Factors*

<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: R	RQ:
<i>Materials</i>	
SM: T1	EQ: N1 M2 VV W2
<i>Functions</i>	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
<i>Context</i>	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 ( vy)
LMS: NA (0 %SE)	ASIC: 253,254



**8020-G FACTORY HAND/LABOURER, CLAY PROCESSING**

Performs any combination of the following duties in the manufacture of clay products.

Performs duties as described under Master Title LABOURER. Loads worked clay into machines which prepare and process clay products and associated glazes. Removes, trims and stacks ceramic products discharged from presses. Sets products in specified pattern on kiln car, pallet or trolley. Moves kiln car or trolley to and from kiln, dryer, and sorting, storage or shipping areas. Assists in setting products in kilns and removing after firing. Removes and stacks kiln furniture (holding and supporting devices) for re-use. Builds and pulls down wickets (kiln doors) and seals crown openings. Packs products for distribution.

May examine and grade products according to prescribed limit on colour, size and defects. May perform a particular task and be designated accordingly, e.g.

Kiln Door Builder      Kiln Labourer  
Setter/Stacker, Clay Products

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T1w
HC: R	RQ:
<b>Materials</b>	
SM: T1	EQ: N1 M2 VV W2
<b>Functions</b>	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
<b>Context</b>	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 2861,2862

**8020-H FACTORY HAND/LABOURER, CEMENT PLANT**  
Factory Hand/Labourer, Concrete Plant;  
Yard Hand, Cement Plant; Yard Hand,  
Concrete Plant

Performs any combination of the following duties in the manufacture of cement and concrete products.

Performs duties as described under Master Title LABOURER. Greases and assembles concrete moulds. Holds reinforcing steel in position during concrete pours. Stacks batches of wet concrete moulds coming off production line. Strips moulds from dried concrete products, such as pipes, slabs and blocks. Places products on pallets or racks for curing. Cleans moulds for re-use. Assists other workers finishing cement and concrete products. Loads products for shipping. Cleans equipment and work area.

May treat products with chemicals and high pressure water jet to form exposed surfaces. May perform a particular task and be designated accordingly, e.g.

Stacker, Cement Products

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T1w
HC: R	RQ:
<b>Materials</b>	
SM: T1	EQ: N1 M2 VV W2
<b>Functions</b>	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
<b>Context</b>	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 287

**8020-I LABOURER, MEATWORKS**  
Labourer, Abattoir; Labourer, Knackery

Performs any combination of the following duties in a meat

works.

Performs duties as described under Master Title LABOURER. Stuns and shackles livestock for slaughtering. Holds meat steady during cutting. Distributes supplies from storage to work stations. Transports inedible materials from killing floor to rendering room and puts into rendering tanks. Pushes carcasses through spray cabinets to wash them. Loads quarters and sides of beef for shipping. Removes empty trolley wheels from overhead rails and places them in chutes or on rails for re-use. Washes equipment, utensils and refrigeration units using broom and water hose.

May be designated according to duties performed, e.g.

Beef Lugger, Abattoir      Pig Carcass Conveyor  
Trolley Cleaner, Abattoir      Trucker, Pork Cutting  
Package Handler, Abattoir Freezers

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T1w
HC: R	RQ:
<b>Materials</b>	
SM: T1	EQ: N1 M2 VV W2
<b>Functions</b>	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
<b>Context</b>	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 2115

**8020-J FACTORY HAND/LABOURER, DAIRY PROCESSING**

Performs any combination of the following duties assisting in processing dairy products.

Performs duties as described under Master Title LABOURER. Scrubs and cleans pipes, fittings and process machines with detergent and sterilising solutions. Connects pipes and fittings to machines. Turns valves to facilitate the flow of milk and cream into vats or hoppers. Starts and stops machines as directed. Moves containers to storage or shipping areas. Places empty bottles, cases and cans onto conveyor system for receiving, washing or filling. Sweeps and hoses work areas.

May be designated according to the nature of dairy products processed, e.g.

Factory Hand/Labourer, Cheese Processing  
Factory Hand/Labourer, Ice Cream Processing  
Factory Hand/Labourer, Milk Processing

**Job Content Factors**

<b>Workers</b>	
FP: GE NFR	IP: T1w
HC: R	RQ:
<b>Materials</b>	
SM: T1	EQ: N1 M2 VV W2
<b>Functions</b>	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
<b>Context</b>	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 212

**8020-K LABOURER, LAUNDRY**  
General Hand, Laundry

Performs any combination of the following duties working in a laundry.

Performs duties as described under Master Title LABOURER. Unloads bundles of clothing into work area for sorting and cleaning. Removes bundles from conveyors and distributes them to workers. Fastens identification onto laundry items. Sorts laundered items according to identification system or assembles orders according to invoice

or other request. Collects identification tags from laundered items for reuse. Loads and unloads washing machines, dryers and extractors. Stacks linen supplies on storage shelves. Loads laundered items into delivery vehicles. Sweeps floors and cleans work areas.

Job Content Factors

Workers	
FP: GE NFR	IP: T1w
PC: R	RQ:
Materials	
SM: T1	EQ: N1 M2 VV W2
Functions	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
Context	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 ( vy)
LMS: NA (0 %SE)	ASIC: 9340

8020-L GENERAL HAND, PRINTING

Performs any combination of the following duties, generally in support of other workers, associated with printing and related activities.

Performs duties as described under Master Title LABOURER. Loads paper and other material into printing press feeder mechanism. Folds and collates signatures (sheets comprising several printed pages) by hand or using preset machines. Operates stitching machines to bind books and other material. Stacks printed material in drying racks or ovens. Removes waste matter. Bundles and loads finished product, such as newspapers. Cleans and lubricates machinery.

May be designated according to function or area of work, e.g.  
General Hand, Letterpress Printing  
General Hand, Flexographic Printing  
General Hand, Newspaper Press  
Table Hand, Printing  
Assistant, Screen Printing Machine  
Assistant, Corrugated Machine

Job Content Factors

Workers	
FP: GE NFR	IP: T1-3w
HC: R	RQ: V2
Materials	
SM: P2 T1	EQ: S1 M1
Functions	
MA: D3 R4 L3	
PA: U1 H1 W1 E4	SA: S2 L2

Context

EC: M1 L1 C09	TC: A1 R1
SS: 2	SC: 4 ( vy)
LMS: NA (0 %SE)	ASIC: 264

8020-M LABOURER, HIDE AND SKIN PROCESSING  
General Hand, Hide and Skin Processing

Performs any combination of the following duties in a tannery, fellmongery or hide and skin store.

Performs duties as described under Master Title LABOURER. Unloads green hides and skins for fleshing. Fleshes hides by cutting out pieces of flesh, fat or hide. Lays out skins and hides for classing, and restacks them. Spreads hides and skins over sticks for drying. Arranges hides and skins in stacks, forms covering and tends heater to dry them artificially. Sprays dried hides with preservatives. Loads hides and skins into bale and assists in bale pressing and securing. Assists in loading and mixing chemicals in treatment drums. Loads hides and skins into treatment drums. Ridges wet blue-leather by cutting down centre with knife. Transfers hides and skins around tannery and assists tanning, leather finishing or fellmongering machine operators. Cleans equipment and work areas.

May be designated according to nature of hide and skin processing operation, or a particular task, e.g.  
Fellmongery Hand                      Flesher Hand  
Labourer, Fellmongery                  Labourer, Hide and Skin Store  
Labourer, Tannery                      Tannery Hand

Job Content Factors

Workers	
FP: GE NFR	IP: T1w
HC: R	RQ:
Materials	
SM: T1	EQ: N1 M2 VV W2
Functions	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
Context	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 ( vy)
LMS: NA (0 %SE)	ASIC: 345

8020-Z FACTORY HANDS/LABOURERS nec

This residual group covers factory hands and related labouring occupations not elsewhere classified in Unit Group 8020.

MINOR GROUP 803  
AGRICULTURAL AND FORESTRY LABOURERS

Agricultural, Forestry and Logging Labouring Occupations are classified in the following unit groups.

- 8030      Agricultural Labourers
- 8031      Forestry Labourers

8030    AGRICULTURAL LABOURERS

This unit group covers basic manual working occupations concerned with labouring on farms or market gardens.

**Entry Requirements** no formal entry requirements.

**Activities include** performing duties as described under Master Title LABOURER.

8030-A      FARM LABOURER

Performs any combination of the following duties on pastoral, livestock, cereal grain and other crop farms.

Performs duties as described under Master Title LABOURER. Pulls, cuts, hoes or sprays weeds. Loads and unloads stockfeed, seed grain and fertiliser. Feeds ground grain, hay and silage to cattle; hay, grain and stockfeed supplements to sheep and horses; and grain mash and additives to pigs. Waters livestock by filling troughs or starting pumps. Cleans sheds, stables and pens. Removes obstructions from irrigation channels and moves piping for sprinkler systems. Assists in tasks, such as shearing and docking sheep, branding and tagging livestock, planting and harvesting crops, and erecting and repairing fences.

May be designated according to farming activity, e.g.

- Labourer, Beef Cattle Farm
- Labourer, Dairy Farm
- Labourer, Goat Farm
- Labourer, Piggery
- Labourer, Poultry Farm
- Labourer, Sheep Farm
- Labourer, Stud Farm
- Labourer, Sugar Cane Farm
- Labourer, Tobacco Farm
- Labourer, Wheat Farm

Job Content Factors

Workers	
FP: GE NFR	IP: T1w
HC: R	RQ: L1
Materials	
SM: T1	EQ: N1 M2 VV W2
Functions	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S1
Context	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 ( vy)
LMS: NA (0 %SE)	ASIC: 018

8030-B      LABOURER, FRUIT AND VEGETABLE GROWING

Performs any combination of the following duties on market gardens or orchards producing fruit and vegetables.

Performs duties as described under Master Title LABOURER. Climbs step ladders or stands on lift platforms to reach tree fruits. Picks tree fruit such as apples, oranges, lemons, apricots, peaches, pears, cherries, or bananas according to maturity, by pulling, cutting or twisting. Pulls or cuts bunches of grapes from vines. Picks fruit such as strawberries, passionfruit, raspberries, berries and pineapples. Shakes nut trees and gathers fallen fruits. Thins and hoes vegetable crops. Pulls, cuts, hoes and sprays weeds. Harvests vegetable crops by picking, cutting, pulling or digging, and places produce in bags, boxes or baskets. Trims tops off vegetables such as carrots and onions, and washes and ties them in bunches. Loads filled fruit and vegetable containers onto truck for transportation to markets or processors.

May be designated according to fruit and vegetable grown or harvested, e.g.

- |                         |                           |
|-------------------------|---------------------------|
| Apple Picker            | Apricot Picker            |
| Banana Picker           | Cherry Picker             |
| Fruit Picker, General   | Grape Picker              |
| Lemon Picker            | Market Garden Labourer    |
| Mushroom Picker         | Nut Picker                |
| Orchard Labourer/Worker | Passionfruit Picker       |
| Pear Picker             | Pineapple Picker          |
| Strawberry Picker       | Vegetable Picker, General |

Job Content Factors

Workers	
FP: GE NFR	IP: T1w
HC: R	RQ: L1
Materials	
SM: T1	EQ: N1 M2 VV W2
Functions	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S1
Context	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 ( vy)
LMS: NA (0 %SE)	ASIC: 013,014

8031 FORESTRY LABOURERS

This unit group covers basic manual working occupations concerned with labouring in the areas of forestry and logging.

**Entry Requirements** no formal entry requirements.

**Activities include** performing duties as described under Master Title LABOURER.

8031-A LABOURER, FORESTRY

Performs any combination of the following duties in the cultivation and maintenance of forest areas.

Performs duties as described under Master Title LABOURER. On a seasonal basis, gathers seed cones from evergreen trees for reforestation purposes. Sprays forest areas with pesticides. Plants seedlings in predetermined areas for reforestation purposes. Operates a variety of fire-fighting equipment when assisting in controlled burn-off operations, or fighting forest fires. Assists in the maintenance of forest access roads and fire-breaks. Applies fertiliser to newly planted areas.

May assist other forestry workers in the plant nursery. May perform routine tasks in support of logging operations and be designated accordingly, e.g.

Labourer, Logging

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: R	RQ:
<i>Materials</i>	
SM: T1	EQ: N1 M2 VV W2
<i>Functions</i>	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
<i>Context</i>	
EC: L4 C09,13	TC: A1 S2 I2 R1
SS: 2	SC: 4 ( vy)
LMS: NA (0 %SE)	ASIC: 030

MINOR GROUP 809

OTHER BASIC MANUAL WORKING OCCUPATIONS

Other Basic Manual Working Occupations are classified in the following unit group.

8090      Other Basic Manual Working Occupations

8090    OTHER BASIC MANUAL WORKING OCCUPATIONS

This residual unit group covers other basic manual working occupations not elsewhere classified in Major Group 80.

**Entry Requirements** no formal entry requirements.

**Activities include** performing duties as described under Master Title LABOURER.

8090-A      TRUCK DRIVER'S OFFSIDER

Swamper; Truck Jockey

Loads goods onto trucks or into containers to transport by truck, and unloads at destination.

Performs duties as described under Master Title LABOURER. Moves goods to be transported to shipping area. Lifts and carries goods onto truck or packs goods into containers and then loads onto truck. Sorts and stacks goods according to type, dimensions and conditions. Assists in tying-down loads and covering with tarpaulin, if necessary. Uses hand signals and voice to guide truck driver into loading bay or through confined spaces. Sweeps and cleans truck tray.

May use hand-truck or other materials handling equipment to load and unload goods.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: R	RQ:
<i>Materials</i>	
SM: T1	EQ: N1 M2 VV W2
<i>Functions</i>	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
<i>Context</i>	
EC: L4 C09	TC: A1 S2 I2 R1
SS: 2	SC: 4 ( vy)
LMS: NA (0 %SE)	ASIC: Many

8090-B      GARBAGE COLLECTOR

Refuse Collector; Rubbish Collector

Collects household, commercial and industrial waste for disposal.

Performs duties as described under Master Title LABOURER. Rides on or in garbage trucks, getting off to collect refuse. Visits, as part of a team, every domestic, commercial and industrial establishment along the route to pick up refuse which has been placed outside for collection. Loads refuse first into a bin, or directly into garbage truck. Assists other members of team to unload garbage truck. Operates compacting equipment if fitted on garbage truck.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE NFR	IP: T1w
HC: R	RQ:
<i>Materials</i>	
SM: T1	EQ: N1 M2 VV W2
<i>Functions</i>	
MA: D3 R4	
PA: U1 C2 H1 W1 E4	SA: S2 L2
<i>Context</i>	
EC: L4 C09,02,12	TC: A1 S2 I2 R1
SS: 5	SC: 5 ( vy)
LMS: NA (0 %SE)	ASIC: 8495

## **SUPER GROUP 9**

### **Occupations Not Elsewhere Classified**

Occupations Not Elsewhere Classified are classified in the following major groups.

90    Occupations Not Elsewhere Classified

## **MAJOR GROUP 90**

### **OCCUPATIONS NOT ELSEWHERE CLASSIFIED**

Occupations Not Elsewhere Classified are classified in the following minor groups.

- 900 Utilities Equipment and Stationary Engine  
Operating Occupations
- 901 Electronic and Communications Equipment  
Operating Occupations

# 90 OCCUPATIONS NOT ELSEWHERE CLASSIFIED

## 900 UTILITIES EQUIPMENT AND STATIONARY ENGINE OPERATING OCCUPATIONS

### 9000 SUPERVISORS, ELECTRICITY GENERATION AND DISTRIBUTION

9000-A System Control Supervisor  
9000-B Power Station Shift Supervisor  
9000-C Power Plant Controller

### 9001 ELECTRICAL GENERATION AND DISTRIBUTION OCCUPATIONS

9001-A System Control Operator  
9001-B Power Plant Unit Operator  
9001-C Hydro-Electric Station Operator  
9001-D Distribution Switching Operator

### 9002 RELATED ELECTRICAL GENERATION AND DISTRIBUTION OCCUPATIONS

9002-A Auxiliary Plant Attendant

### 9003 WATER SUPPLY EQUIPMENT OPERATING OCCUPATIONS

9003-A Storage Supervisor (Water Supply)  
9003-B Water Bailiff  
9003-C Water Service Operator

### 9004 WASTE DISPOSAL EQUIPMENT OPERATING OCCUPATIONS

9004-A Incinerator Plant Attendant  
9004-Z Waste Disposal Equipment Operating Occupations nec

### 9005 STATIONARY ENGINE OPERATING OCCUPATIONS

9005-A Engine Driver (Except Transport)  
9005-B Boiler Attendant  
9005-C Refrigeration Operator  
9005-D Air-Conditioning Operator  
9005-Z Stationary Engine Operating Occupations nec

### 9006 GAS RETICULATION OCCUPATIONS

9006-A Cut-off Collector  
9006-B Gas Leakage Attendant  
9006-C Patrolman/woman, Utilities

### 9009 OTHER UTILITIES EQUIPMENT AND STATIONARY ENGINE OPERATING OCCUPATIONS

9009-A Assistant Boiler Attendant  
9009-Z Utilities Equipment and Stationary Engine Operating Occupations nec

## 901 ELECTRONIC AND COMMUNICATIONS EQUIPMENT OPERATING OCCUPATIONS

### 9010 SUPERVISORS, ELECTRONIC AND COMMUNICATIONS EQUIPMENT OPERATING OCCUPATIONS

9010-A Supervisor, Radio and Telegraph Operators  
9010-B Supervisor, Motion Picture Projectionists  
9010-C Supervisor, Radio and TV Broadcasting Equipment Operators  
9010-D Supervisor, Sound Recording and Reproduction Equipment Operators  
9010-Z Supervisors, Electronic and Communications Equipment Operating Occupations nec

### 9011 RADIO AND TELEGRAPH OPERATORS

9011-A Radio Telegraphist  
9011-Z Radio and Telegraph Operators nec

### 9012 MOTION PICTURE PROJECTIONISTS

9012-A Motion Picture Projectionist

### 9013 PERFORMING AND AUDIO-VISUAL ARTS EQUIPMENT OPERATORS

9013-A Broadcast Transmitter Operator  
9013-B Light Technician  
9013-C Microphone Boom Operator  
9013-D Sound Mixer  
9013-E Sound Recording Equipment Operator  
9013-F Motion Picture Camera Operator  
9013-G Television Camera Operator  
9013-Z Performing and Audio-Visual Arts Equipment Operators nec

### 9019 OTHER ELECTRONIC AND COMMUNICATIONS EQUIPMENT OPERATING OCCUPATIONS

9019-A Automatic Data-Transceiver Operator

## MINOR GROUP 900

### UTILITIES EQUIPMENT AND STATIONARY ENGINE OPERATING OCCUPATIONS

Utilities Equipment and Stationary Engine Operating Occupations are classified in the following unit groups.

9000	Supervisors, Electricity Generation and Distribution
9001	Electrical Generation and Distribution Occupations
9002	Related Electrical Generation and Distribution Occupations
9003	Water Supply Equipment Operating Occupations
9004	Waste Disposal Equipment Operating Occupations
9005	Stationary Engine Operating Occupations
9006	Gas Reticulation Occupations
9009	Other Utilities Equipment and Stationary Engine Operating Occupations

#### 9000 SUPERVISORS, ELECTRICITY GENERATION AND DISTRIBUTION

This unit group covers occupations concerned with supervising and co-ordinating activities of staff engaged in operating equipment used to generate electricity or to transmit electricity through distribution systems to consumers.

**Entry Requirements** a basic vocational/trade/para-professional qualification plus 8-15 years' experience.

**Activities include** controlling a central switchboard; determining generating requirement; adjusting generator capacity; observing meters and signal lights; co-ordinating operators of generating equipment; and co-ordinating operators engaged in distribution of power.

#### *Related Occupations*

Unit Group 9005 : Stationary Engine Operating Occupations

#### 9000-A SYSTEM CONTROL SUPERVISOR

Supervises and co-ordinates activities of persons engaged in operating equipment to transmit or distribute electrical power, and assumes management control of system in the event of generation or transmission failures.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

#### *Job Content Factors*

##### *Workers*

**FP:** GE10y PSP4-5y(PPC) / (T)      **IP:** E8-10y  
**HC:** RES      **RQ:** S1 U1 D1 V1 A1

##### *Materials*

**SM:** D2 I2 P1 T2      **EQ:** P2 S2 N2 M2 K2

##### *Functions*

**MA:** A1 P1 D1 R2 M2 L2  
**PA:** C2 S1 E1

**SA:** S1 B1 R3-4

#### *Context*

**EC:** L1 C10  
**SS:** 6

**TC:** A1 I1 RV TV  
**SC:** 8 (vy)

**LMS:** NA (0 %SE)

**ASIC:** 3610

#### 9000-B POWER STATION SHIFT SUPERVISOR

Supervises and co-ordinates activities of persons engaged in operating equipment to generate electrical power, and programs and oversees mechanical maintenance and repairs to turbines and related equipment.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN, and programs and oversees the isolation of mechanical equipment prior to repair, to ensure that it is safe to work on equipment. Grants approval for equipment to return to an on-line status.

May oversee and assist with electrical isolations. May specialise in the operation of a particular type of power station and be designated accordingly, e.g.

Hydro-Electric Power Station Shift Supervisor  
Pulverised Fuel (Coal) Power Station Shift Supervisor

#### Job Content Factors

<i>Workers</i>	
FP: GE10-12y PSP2-4y(T) / (B)	IP: E10-15y
FC: ESI	RQ: S1 U1 D1 V1 A1
<i>Materials</i>	
SM: D2 I2 P1 T2	EQ: M2 K2
<i>Functions</i>	
MA: A1 P1 D1 R2 M2 L1	
PA: C2 S1 W1 E1	SA: S1 L1 B1 R1-2
<i>Context</i>	
EC: L1 C04.01.10	TC: A1 I1
SS: 6	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 3610

### 9000-C POWER PLANT CONTROLLER

Controls central switchboard in electric power generating plant to distribute power load among generators according to capacity and changing power demands.

Determines number of generators required to meet power demands, using load indicators or by interpreting estimates received from systems controller who directs flow of current through power network. Notifies generating room of pending load changes. Adjusts controls to synchronise newly started generator units with units in operation. Observes indicating

instruments to determine when generator is synchronised and pushes switch to connect generator output to bus-bar receiving electricity from group generators. Closes switch to disconnect generators from bus-bar as power demand decreases or when equipment malfunctions. Observes switchboard meters, signal lights and recording instruments to verify that electric power is flowing from power plant properly, and that correct voltage is being maintained. Compiles records of all switching operations and of load conditions on generators. Inspects control room equipment periodically to detect deterioration or malfunction. Cleans and lubricates mechanical and electrical components as necessary.

May assist in repair of defective equipment. May control automated power plant having centralised control room and regulate all power generating equipment, such as boilers, turbines and auxiliary equipment.

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP2-4y(T) / (B)	IP: E8-10y
HC: RES	RQ: S1 U1 D1 V1 A1
<i>Materials</i>	
SM: D1 P2 T2	EQ: S1 M1
<i>Functions</i>	
MA: A1 P2 D2 R3 M3 L2	
PA: U2 C1 S2 W1 E1	SA: S1 B1 R2-3
<i>Context</i>	
EC: L1 C10	TC: A1 I1 R1
SS: 3	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 3610

## 9001 ELECTRICAL GENERATION AND DISTRIBUTION OCCUPATIONS

This unit group covers occupations concerned with operating electricity generating equipment, control of generating units and distribution switching of power.

**Entry Requirements** a basic vocational/trade qualification plus 4-6 years' experience.

**Activities include** co-ordinating electricity supply from generating units; maintaining distribution system availability to meet demands; operating boilers and turbo generators; controlling units at a power station; and controlling and planning the flow of electricity distribution.

#### Related Occupations

Occupation 9000-A	: System Control Supervisor
Unit Group 9005	: Stationary Engine Operating Occupations

### 9001-A SYSTEM CONTROL OPERATOR Area Controller, Generation

Co-ordinates supply of electricity from generating stations, and maintains security and integrity of distribution system to ensure availability and adequate distribution of electricity to meet power demands, performing any combination of the following duties.

Receives load schedules for various generating stations. Forecasts probable load according to weather conditions and consumer demand records. Notifies generating stations of electric power required to meet fluctuating demands. Programs, plans and directs de-energising of malfunctioning circuits by operation or adjustment of switches to ensure safety of maintenance crew, and to avoid interruptions of service during repairs. Notifies maintenance crew of location and de-energising of troubled sector, and verifies that all crew members are clear of repaired equipment before directing energisation of circuit. Monitors remote substations through

central automatic switchboard. Liaises with large industrial consumers and civic authorities to inform them of loss or return of power caused by system failure or planned interruptions to supply. Compiles operational records.

May specialise in a particular aspect of system control and be designated accordingly, e.g.

Load Dispatch Officer  
Switching Security Officer

#### Job Content Factors

<i>Workers</i>	
FP: GE10y PSP4y(T)	IP: T1y E4y
HC: REC	RQ: S1 U2 D1 V1 A2
<i>Materials</i>	
SM: D1 P2 T2	EQ: K1
<i>Functions</i>	
MA: A1 P1 D2 R3 M3 L2	
PA: U2 S2 W1 E1	SA: S1

Context

EC: L1 C10	TC: A1 I1 R1
SS: 3	SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: 3610

9001-B POWER PLANT UNIT OPERATOR

Operates boilers and turbo generators in electricity generating station.

Activates valves to fill and maintain required level of water in boiler. Starts equipment, observes meters, gauges and warning lights, and adjusts levers, valves and switch controls to obtain specified operating conditions and output. Moves controls to regulate flow of fuel, such as pulverised coal into burners. Analyses temperature, pressure, fuel flow and other instrument readings to ensure efficient operation or combustion. Starts turbine or directs helpers to do so. Opens throttle of turbine to start rotor spinning, then partially closes it to allow turbine to run at slow speed for a predetermined period. Increases speed of turbine and ensures that automatic regulator maintains correct working speed. Notifies power plant controller when ready to run turbine at full working speed, and when turbine synchronised with other power units in plant or system. Observes gauges and meters to determine if turbine can handle load and is operating efficiently. Shuts down boiler and turbine in order to decrease power output, or to cut out malfunctioning unit. Compiles records of instrument readings, hours of operation, fuel consumption and power output, and reports on equipment performance and serviceability. Maintains, lubricates, and adjusts equipment, and makes minor repairs using hand tools.

May operate stand-by diesel-electric generating units.

Job Content Factors

Workers	
FP: GE10y PSP2-4y(T) / (B)	IP: E4-6y
HC: REC	RQ: S1 U1 D1 V1 A1
Materials	
SM: D2 P2 T1	EQ: S1 M1
Functions	
MA: A1 P2 D2 R3 M3 L2	
PA: U1 S2 W1 E2	SA: S1 B1 R4
Context	
EC: L1 C04,01,10	TC: A1 I1 R1
SS: 3	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 3610

9001-C HYDRO-ELECTRIC STATION OPERATOR

Controls electrical generating units and related mechanical and hydraulic equipment at hydro-electric generating station, performing any combination of the following duties.

Operates switchboard and manual controls to control water, turbines, generators and auxiliary hydro-electric generating station equipment, and distributes load among generating units, according to power demands. Operates feeder switchboard to control distribution of power over feeder circuits between generating station and substations. Records control-board meter and gauge readings, inspects operating equipment and notifies supervisor of conditions indicating

abnormal equipment operation. Opens and closes power switches to protect safety of crews working on power lines and switches.

May specialise in a particular activity and be designated accordingly, e.g.

- Turbine Room Attendant
- Control Room Operator (Hydro-Electric Station)

Job Content Factors

Workers	
FP: GE10y PSP4y(T)	IP: T1y E4y
HC: REC	RQ: S1 U2 D1 V1 A1
Materials	
SM: D2 P2 T1	EQ: M1
Functions	
MA: D3 R3 M3 L3	
PA: U2 C2 S2 W2 E1	SA: S1
Context	
EC: L1 C10	TC: A1 I1 R1
SS: 3	SC: 8 (vy)
LMS: NA (0 %SE)	ASIC: 3610

9001-D DISTRIBUTION SWITCHING OPERATOR

Programs, plans, supervises and carries out switching in the high voltage electricity distribution system and controls equipment, such as transformers and circuit breakers, that regulate flow of electricity through substations and over distribution lines to consumers, performing any combination of the following duties.

Observes switchboard instruments to detect indications of line disturbances, such as grounded, shorted or open circuits. Plans and performs de-energising of malfunctioning circuits by operation of switches to ensure safety of maintenance crew, and to avoid interruptions of service during repairs. Pulls switch handle or pushes buttons to de-energise line or equipment preparatory to repair, and to connect alternative circuit to carry load of de-energised lines. Notifies maintenance crew of location and de-energising sector, and verifies that all crewmen/women are clear of repaired equipment before re-energising circuit. Communicates with system control operator on the operation of system.

May compile periodic report of load variations for system planning purposes. May locate and replace defective fuses and switches using testing device and hand tools.

Job Content Factors

Workers	
FP: GE10-12y PSP4y(T)	IP: T1y E4y
HC: RIC	RQ: LV S1 U1 D1 V1 A1
Materials	
SM: D2 P2 T1	EQ: SV KV VV
Functions	
MA: A1 P1 D2 R3 M3 L2	
PA: PV U2 S2 W2 BV E2	SA: S1 B1 R0-4
Context	
EC: L2 C10	TC: A1 I1
SS: 3	SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: 3610

9002 RELATED ELECTRICAL GENERATION AND DISTRIBUTION OCCUPATIONS

This unit group covers occupations concerned with assisting operators of electrical generating equipment.

**Entry Requirements** a basic vocational/trade qualification plus 2-4 years' experience.

**Activities include** assisting in the operation and maintenance of boilers, turbines and related equipment.

### 9002-A AUXILIARY PLANT ATTENDANT

Helps operate and maintain boilers, turbines and related equipment used to generate electrical power for distribution to domestic, commercial and industrial users.

Opens and closes valves throughout plant to bring units into or out of operation or to isolate defective items. Records readings of gauges and meters on switchboards and panels at various locations in plant. Verifies temperatures and coolant flow in transformers, and feels mechanical equipment to detect overheating. Opens and closes manually-operated switches throughout plant, as instructed, to regulate flow of electric power. Assists in the isolation of defective items by opening and closing of valves and switches. Cleans and lubricates mechanical and electrical equipment, and reports meter fluctuations, abnormal sounds, overheating, abnormal furnace conditions and other evidence of malfunction.

May help in finding cause of equipment malfunctions or take independent action, such as damping overheating furnace to safeguard equipment.

#### Job Content Factors

##### Workers

FP: GE10-12y PSP2-4y(T) / (B)  
HC: RIC

IP: T1y E2-4y  
RQ: S1 U1 D1 V1 A1

##### Materials

SM: D2 P2 T1

EQ: P2 S1 N1 M1

##### Functions

MA: A1 D3 R3 M3 L3  
PA: U1 W1 B1 E3

SA: S1

##### Context

EC: L1 C04,01,10  
SS: 3

TC: A1 I1 R2  
SC: 7 (vy)

LMS: NA (0 %SE)

ASIC: 3610

## 9003 WATER SUPPLY EQUIPMENT OPERATING OCCUPATIONS

This unit group covers occupations concerned with the supply and maintenance of water supply equipment.

**Entry Requirements** Year 10 plus 2 years' experience.

**Activities include** controlling gates, valves and pumps in aqueduct, dam and pumping station to regulate flow of water; controlling section of irrigation system; investigating reports of water leakage and determining action required to repair fault.

### 9003-A STORAGE SUPERVISOR (WATER SUPPLY) Reservoir Keeper

Controls gates, valves and pumps in aqueduct, dam and pumping station to regulate flow of water, maintain reservoir at specified level to supply irrigation, urban and industrial water, and exercise flood control.

Moves levers, wheels or electrical controls to open gates and valves or control pumps that regulate water flow. Monitors gauges and meters to ensure required degree of pressure to maintain specified water level in reservoir. Records changes in water level, turbidity, temperature and rate of flow. Lubricates equipment and performs minor repairs and adjustments to maintain operating efficiency, using hand or power tools. Patrols catchment area on foot, by boat or with vehicle, to inspect equipment, assess any unserviceability, and prevent trespassing.

May direct maintenance gang to spray noxious weeds in catchment area, to maintain channel and aqueduct system, to remove vegetation from aqueduct system, and to maintain picnic areas at dam site. May operate and maintain plant and equipment such as large spillway gates.

#### Job Content Factors

##### Workers

FP: GE10y  
HC: REC

IP: E2y  
RQ: L1 S1 D1 V1 A1

##### Materials

SM: D2 P2 T1

EQ: S1 N1 M1 V1

##### Functions

MA: A1 P1 D2 R3 M3 L2  
PA: U1 C1 H1 SV WV B2 E3

SA: S1 I2 B1 R3-4

##### Context

EC: L4 C09,13  
SS: 7

TC: A1 I1  
SC: 9 (vy)

LMS: 150 (0 %SE)

ASIC: 3701

### 9003-B WATER BAILIFF Water Officer

Controls section of irrigation system to convey water to farms, according to water users' requirements, or as directed.

Contacts water users, observes climatic conditions and peruses historic records to determine quantity of water needed, and time and duration of delivery. Computes and requisitions quantity of water required. Operates pumps and gates to start and regulate flow of water into delivery channels. Drives vehicle and patrols area to detect and remove leaks or obstructions to water flow. Reads and maintains water meters and records water supplied to irrigators. Visually examines

meters and connections for defects or unauthorised connections. Makes minor adjustments to meter to correct inaccuracies. Reads indicator on sluice gate to determine width of gate and verify meter readings. Records annual amounts of water used by crops and crop areas. Prepares monthly operations reports and annual statistical information. Oversees routine maintenance of channels and structures, and spraying of weed in channels.

May install water meters.

Job Content Factors

Workers	
FP: GE10y	IP: E2y
HC: RCE	RQ: L1 SV D1 V1 A1
Materials	
SM: D1 P2 T2	EQ: S1 N1 V1
Functions	
MA: A2 P2 D2 R3 M3 L2	
PA: U1 C1 H1 S1 W1 B2 E2	SA: A1 S2 I1 B1 R0-4
Context	
EC: L2	TC: A1 I1 R2
SS: 7	SC: 7 (vy)
LMS: 200-300 (0 %SE)	ASIC: 3701

9003-C WATER SERVICE OPERATOR  
Turncock; Turnkey

Investigates reports of water leakage, assesses reason for fault,

isolates fault if necessary, and determines action required to repair fault.

Receives report by radio of burst water main, travels by vehicle to site of water main, determines reason for, and nature of fault, and opens and closes valves to isolate fault and redirect water around fault. Determines action required to repair fault and advises control to dispatch gang to undertake repairs. On completion of repairs, operates valves to restore water supply to the isolated area.

May install, maintain and read meters. Inspects water supply services. May inspect plumbing installation for compliance with statutory regulations. May monitor water levels in reservoirs and in service basins.

Job Content Factors

Workers	
FP: GE10y	IP: E2y
HC: RIC	RQ: L1 D1 V1 A1
Materials	
SM: D2 P2 T1	EQ: N1 V1
Functions	
MA: A1 P1 D3 R4 L3	
PA: U1 S1 W1 E2	SA: A1
Context	
EC: L2 C08	TC: A1 I1 R1
SS: 7	SC: 7 (vy)
LMS: NA (0 %SE)	ASIC: 3701

9004 WASTE DISPOSAL EQUIPMENT OPERATING OCCUPATIONS

This unit group covers occupations concerned with the operation of equipment necessary for the disposal of domestic/industrial waste.

Entry Requirements no formal requirements.

Activities include adjusting valves, checking temperature, maintaining equipment, cleaning sumps and taking samples.

9004-A INCINERATOR PLANT ATTENDANT

Tends equipment to burn garbage or other refuse in an incinerator plant.

Directs truck drivers in tipping waste into reception hoppers. Directs other workers to load material into furnace burner. Starts forced air draft blower and turns control to admit gaseous or other fuel into burners. Lights furnace, using ignition switch, pilot light or match. Observes and adjusts combustion control devices, such as pyrometers, draughts and burners to maintain temperature and obtain efficient combustion chamber grates. Rakes non-combustible material and clinkers from fire grates. Turns water line valve to sprinkle and settle ashes. Moves controls to unload ashes or non-combustible materials from overhead hoppers into truck, or opens door to drop ashes into truck.

May maintain equipment and repair items, such as fire brick, grates, and conveyors. May record and receive fees for rubbish burned.

Job Content Factors

Workers	
FP: GE NFR	IP: T3m
HC: REC	RQ: D1 V1 A1
Materials	
SM: D2 P2 T1	EQ: S1 N1 M1
Functions	
MA: A2 P2 D2 R3 M3 L3	
PA: U1 C1 H2 W1 E3	SA: S1 I2 B2 R3-4
Context	
EC: L4 C01,06,04	TC: A1 I2 R1
SS: 2	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 8495

9004-Z WASTE DISPOSAL EQUIPMENT  
OPERATING OCCUPATIONS nec

This residual group covers occupations concerned with the operation of equipment necessary for the disposal of domestic or industrial waste or other refuse, not elsewhere classified in Unit Group 9004.

## 9005 STATIONARY ENGINE OPERATING OCCUPATIONS

This unit group covers occupations concerned with the daily maintenance of various types of stationary engines and auxiliary equipment, such as turbines, boilers, furnaces, blowers, compressors, pumps, generators and motors, used to supply steam, heat, refrigeration, ventilation and air-conditioning, light and mechanical or electrical power at buildings, industrial plants, work-sites or other installations.

**Entry Requirements** a basic vocational qualification to obtain an appropriate certificate of competency issued by the requisite State Government Authority.

**Activities include** operating and maintaining various stationary engines and equipment, refrigeration and cooling systems and air-conditioning equipment.

### *Related Occupations*

Unit Group 9001

: Electrical Generation and Distribution Occupations

### 9005-A ENGINE DRIVER (EXCEPT TRANSPORT) Internal Combustion Engine Driver; Stationary Engine Driver

Operates and carries out daily maintenance on various types of stationary engines and mechanical equipment, such as turbines, boilers, pumps, compressors, motors and generators, and refrigeration, and water or industrial water treating equipment, to provide heat, power and other utility services for buildings or industrial processes.

Starts equipment, observes meters, gauges and warning lights, and adjusts valves, levers and switch controls to obtain specified operating conditions and output. Analyses temperature, pressure, fuel flow and other instrument readings to ensure efficient operation or combustion. Listens to and observes operation of equipment to detect or isolate malfunctions and prevent damage to machinery. Compiles records of instrument readings, hours of operation, fuel consumption and power output, and reports on equipment performance and serviceability. Checks, cleans, lubricates and adjusts equipment.

May control automated steam plant equipment from central location. May operate a particular type of stationary engine or equipment, or specialise in operating equipment within a particular industry and be designated accordingly, e.g.

Sugar Mill Platform Turbine Engine Driver  
Sugar Mill Water Tender  
Sugar Mill Power House Operator  
Sugar Cane Crusher Operator

May, if suitably licensed, operate steam turbines and boilers and be designated accordingly,

First Class Engine Driver (Except Transport)

#### *Job Content Factors*

##### *Workers*

FP: GE8- 9y PSP3-6m(B) IP: T2-4y  
HC: RIE RQ: S1 U1 D1 V1 A1

##### *Materials*

SM: D2 P2 T1 EQ: S1 N1 M1 KV V1

##### *Functions*

MA: A1 P2 D2 R3 M3 L2  
PA: U1 C1 H1 W1 B1 E3 SA: A1 S1 L2 B1 R0-3

#### *Context*

EC: L1 C01,04,06 TC: A1 I1 R2  
SS: 4 SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 9005-B BOILER ATTENDANT Boiler House Attendant; Furnace Operator, Steam

Controls one or more boilers that supply steam for heat, power, or industrial processes.

Performs duties similar to those of 9005-A ENGINE DRIVER (EXCEPT TRANSPORT), specialising in operation of boilers. Actuates lever to fill and maintain required level of water in boiler. Moves controls to regulate flow of fuel, such as gas, oil or pulverised coal into burner, or shovels coal or other solid fuel into firebox, conveyor or hopper. Observes gauges and moves controls to maintain specified temperature and pressure, and to ensure efficient combustion and minimal pollutant emission.

May condition boiler-fed water by adding specified chemicals. May clean boilers, and tighten pipes and fittings, using hand tools. May isolate gauges and replace gauge glass, if required.

#### *Job Content Factors*

##### *Workers*

FP: GE8- 9y PSP3-6m(B) IP: T3y  
HC: RIE RQ: S1 U2 D1 V1 A1

##### *Materials*

SM: T1 EQ: S1 N1 M1

##### *Functions*

MA: A1 D2 R3 M3 L2  
PA: U1 C2 H1 W1 E3 SA: A1 S1 B1 R0-4

#### *Context*

EC: L1 CV0 TC: A1 I1 R1  
SS: 4 SC: 5 (vy)

LMS: NA (0 %SE)

ASIC: Many

### 9005-C REFRIGERATION OPERATOR

Controls freon, carbon dioxide or ammonia gas cooling systems to refrigerate rooms in establishments such as food processing plants or to provide refrigeration for industrial processes.

Performs duties similar to those of 9005-A ENGINE DRIVER (EXCEPT TRANSPORT), specialising in operation of refrigeration or cooling systems. Opens valves and actuates controls to start motors, pumps, compressors, coolers and auxiliary equipment of refrigeration system. Observes instruments such as pressure gauges and monitors operation of equipment. Adjusts solenoids, thermostats and other controls to maintain optimum operating conditions and temperatures. Records temperature and pressure readings on log sheets. Defrosts, cleans and lubricates equipment, and performs other tasks to maintain system in good running order, using hand tools.

Job Content Factors	
Workers	
FP: GE8- 9y PSP3-6m(B)	IP: T2y
HC: RCE	RQ: S1 D1 V1 A1
Materials	
SM: D2 T1	EQ: S1 N1 M1 K2
Functions	
MA: A1 D2 R3 M3 L3	
PA: U1 C2 W1 E2	SA: A1 S1
Context	
EC: L1 C01,09,10	TC: A1 I2 R1
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: Many

9005-D AIR-CONDITIONING OPERATOR

Operates ventilating, cooling and heating equipment, such as electric motors, fans, vacuum pumps, vents and ducts, used to air-condition buildings.

Moves controls to operate fans, electric motors, heaters, compressors, air purification and related equipment. Manipulates switches and levers to regulate speed of fans and to adjust heating and ventilating ducts, as required. Observes instruments, such as humidity and pressure gauges, and monitors operation of equipment. Adjusts solenoids, thermostats, operating conditions and temperatures. Cleans and lubricates equipment.

Job Content Factors	
Workers	
FP: GE8-10y PSP3-6m(B)	IP: T1-2m
HC: RCE	RQ: S1 D1 V1 A1
Materials	
SM: D2 T1	EQ: S1 N1 M1 K2
Functions	
MA: A1 D2 R3 M3 L3	
PA: U1 C2 W1 E2	SA: A1 S1
Context	
EC: L1 C01,09,10	TC: A1 I1 R1
SS: 3	SC: 3 (vy)
LMS: NA (0 %SE)	ASIC: Many

9005-Z STATIONARY ENGINE OPERATING OCCUPATIONS nec

This residual group covers stationary engine operating occupations not elsewhere classified in Unit Group 9005.

9006 GAS RETICULATION OCCUPATIONS

This unit group covers occupations concerned with gas reticulation.

Entry Requirements no formal requirements.

Activities include turning off gas supply to individual consumers upon request for discontinuance of gas service; inspecting underground, and exposing gas pipelines and enclosed areas to detect and locate gas leaks.

9006-A CUT-OFF COLLECTOR  
Gas Termination Attendant

Turns off gas supply to individual consumers upon request for discontinuance of gas service.

Turns off gas supply as specified in the daily work schedule. Unlocks meter by breaking wire seal and opening shut-off valves. Reports defects. Reads, checks and records meter serial number and readings before turning off gas service. Cuts off gas supply in cases of unpaid accounts.

Job Content Factors	
Workers	
FP: GE NFR	IP: T12w
HC: RCE	RQ: L1 D1 V1 A1
Materials	
SM: D2 T1	EQ: S1 V1
Functions	
MA: D3 R4 M3 L3	
PA: U1 W1 E2	SA: A1 I1
Context	
EC: L2 C13	TC: A1 R1
SS: 2	SC: 4 (vy)
LMS: NA (0 %SE)	ASIC: 3620

9006-B GAS LEAKAGE ATTENDANT  
Gas Leakage Inspector

Inspects underground and exposed gas pipelines and enclosed areas to detect and locate gas leaks.

Surveys gas pipeline by vehicle and on foot. Monitors gas detecting equipment in vehicle or uses hand-held detector. Checks for gas leaks during municipal road building program, or at the request of contractor or customer. Inserts gas indicator probe and reads indicator to detect gas leaks. Notifies maintenance department of location in order that gas leak may be classified for repair. Maintains record of daily run.

May perform safety checks of buildings serviced by gas, by checking gas pipes and using gas indicator. May pinpoint certain leaks and be designated accordingly, Pinpointer

Job Content Factors	
Workers	
FP: GE NFR	IP: T12w
HC: RIC	RQ: L1 D1 V1 A1
Materials	
SM: D2 T1	EQ: P1 V1

*Functions*

MA: A1 D2 R4 M3 L3

PA: U1 C1 W1 E2

SA: S1

*Context*

EC: L4 C13

TC: A1 R1

SS: 2

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: 3620

**9006-C PATROLMAN/WOMAN, UTILITIES  
Utility Man/Woman**

Conducts routine patrol along gas pipeline to inspect pipeline, fittings and surrounding areas and undertakes minor maintenance and repairs as required, performing any combination of the following duties.

Uses vehicle to patrol gas pipeline right-of-way. Inspects pipeline and fittings for damage or inserviceability. As required, makes minor repairs to valves, seals and gauges. Reports major items to supervisor. Inspects right-of-way for erosion or earthworks in vicinity of pipeline. Investigates, reports on and supervises all work on or near pipeline right-of-way to ensure that clearance regulations are enforced.

Takes cathodic protection readings to monitor any likely corrosion in pipeline. Tests and calibrates measuring and regulating equipment. Changes recording charts as required. Maintains vehicle.

May operate plant equipment to repair minor erosion and to clear excessive plant growth on right-of-way. May operate and maintain pumping equipment.

*Job Content Factors**Workers*

FP: GE10y

HC: R1

IP: T2-3m

RQ: Q1 V1 A2

*Materials*

SM: D2 I2 T1

EQ:

*Functions*

MA: D3 R4 M3 L3

PA: W1 E2

SA: S1

*Context*

EC: L3 C13

SS: 5

TC: A1 I1 R2 T2

SC: 10 (vy)

LMS: NA (0 %SE)

ASIC: 3620

**9009 OTHER UTILITIES EQUIPMENT AND STATIONARY ENGINE OPERATING  
OCCUPATIONS**

This residual unit group covers occupations concerned with operating utilities equipment and stationary engines not elsewhere classified in Minor Group 900.

**Activities include** assisting with boiler operation by fuelling the boiler, monitoring gauges, regulating fuel and air intake, cleaning furnace, arranging supply of gas to internal consumers, inspecting gas pipelines for leakages, monitoring leakage detection equipment and notifying maintenance personnel.

**9009-A ASSISTANT BOILER ATTENDANT**

Under direction from engine driver or boiler attendant, assists in the operation of equipment to produce steam for industrial purposes by performing any combination of the following duties.

Operates equipment that feeds fuel, such as pulverised coal, fuel oil and gas, to furnaces. Ascertains amount of fuel required by each furnace in operation. Sets mechanical controls to regulate feed rate of fuel and starts air blowers. Monitors gauges to ensure proper proportion of air and fuel are being mixed and makes necessary adjustments to ensure efficient combustion and minimal pollutant emission. Shovels coal spillage onto conveyor. Loads ash from collector onto conveyor, trucks or rail cars. Opens and closes flood gates and adjusts valves of ash-slucing systems. Dusts tubes, and removes slag from furnace tubes and brickwork of coal fired boiler, using steam or compressed air. Opens drains and washes boilers. Cleans, sweeps, washes and paints power house and equipment. Adjusts and lubricates equipment as directed, using hand tools and lubrication equipment.

*Job Content Factors**Workers*

FP: GE8- 9y

HC: RCI

IP: T3m

RQ: D1 V1 A1

*Materials*

SM: D2 T1

EQ: S1 N1 M1

*Functions*

MA: D3 R4 M3 L3

PA: U1 C2 H1 W1 E3

SA: S1 L2

*Context*

EC: L1 CV0

SS: 3

TC: A1 I1 R1

SC: 4 (vy)

LMS: NA (0 %SE)

ASIC: Many

**9009-Z UTILITIES EQUIPMENT AND  
STATIONARY ENGINE OPERATING  
OCCUPATIONS nec**

This residual group covers utilities equipment and stationary engine operating occupations not elsewhere classified in Minor Group 900.

**MINOR GROUP 901**  
**ELECTRONIC AND COMMUNICATIONS EQUIPMENT OPERATING**  
**OCCUPATIONS**

Electronic and Communications Equipment Operating Occupations are classified in the following unit groups.

- 9010 Supervisors, Electronic and Communications Equipment Operating Occupations
- 9011 Radio and Telegraph Operators
- 9012 Motion Picture Projectionists
- 9013 Performing and Audio-Visual Arts Equipment Operators
- 9019 Other Electronic and Communication Equipment Operating Occupations

**9010 SUPERVISORS, ELECTRONIC AND COMMUNICATIONS EQUIPMENT OPERATING OCCUPATIONS**

This unit group covers occupations concerned with supervising and co-ordinating personnel operating telegraph and motion picture equipment and radio, TV and sound recording equipment.

**Entry Requirements** a para-professional certificate with 2-5 years' experience.

**Activities include** supervising and co-ordinating staff on shift work; accuracy and speed of transmission and receipt of messages plus related administrative procedures, reliability, accuracy and safety of operation of broadcast and sound recording equipment and projectors, and maintenance and repair of film.

**9010-A SUPERVISOR, RADIO AND TELEGRAPH OPERATORS**  
**Telegraphist Supervisor**

Supervises and co-ordinates activities of workers engaged in operating telegraph or radio telephone equipment to transmit and receive messages.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers operating a particular type of equipment and be designated accordingly, e.g.

- Supervisor, Radiotelegraphers
- Supervisor, Telegraphists

*Job Content Factors*

<i>Workers</i>	
FP: GE11-12y PSP2y(PPC)	IP: E2y
HC: RES	RQ: S1 A1
<i>Materials</i>	
SM: D2 P1 T2	EQ: P2 S2 K2
<i>Functions</i>	
MA: A1 P2 D2 R2 M3 L2	
PA: P2 U2 C2 S2 E1	SA: S1 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 I1
SS: 7	SC: 7 (vy)

LMS: NA (0 %SE)

ASIC: 560

**9010-B SUPERVISOR, MOTION PICTURE PROJECTIONISTS**

Supervises and co-ordinates the activities of personnel engaged in operating motion picture projectors.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

*Job Content Factors*

<i>Workers</i>	
FP: GE10y PSP2y(PPC)	IP: T2y
HC: RSE	RQ: V1 A2
<i>Materials</i>	
SM: P1 T2	EQ: P2 S2
<i>Functions</i>	
MA: A1 P2 D2 R3 M3 L2	
PA: P2 U2 C2 H2 E2	SA: S2 B1 R3-4
<i>Context</i>	
EC: L1	TC: A1 I1
SS: 9	SC: 9 (vy)

LMS: NA (0 %SE)

ASIC: 913

**9010-C SUPERVISOR, RADIO AND TV BROADCASTING EQUIPMENT OPERATORS**

Supervises and co-ordinates activities of workers engaged in monitoring, controlling and operating radio and television

broadcasting equipment.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May be designated according to particular aspect supervised, e.g.

Officer-in-Charge, Backpack  
Senior Sound Operator  
Senior Videotape Specialist  
Shift Leader (Radio Switch)  
Supervising Technician, Audio  
Supervising Technician, Outside Broadcast  
Supervising Technician, Radio Operations  
Supervising Technician, TV Outside Broadcast Operations  
Supervising Technician, TV Production Operations

#### Job Content Factors

<b>Workers</b>	
FP: GE11-12y PSP2y(PPC)	IP: E5y
HC: RSE	RQ: S1 U2 V2 A1
<b>Materials</b>	
SM: D2 P1 T2	EQ: P2 S2 K2
<b>Functions</b>	
MA: A1 P2 D2 R3 M3 L2	
PA: P2 U2 C2 S2 E3	SA: S1 B1 R3-4
<b>Context</b>	
EC: L1	TC: A1 I1
SS: 9	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: 560,913

**9010-D SUPERVISOR, SOUND RECORDING AND REPRODUCTION EQUIPMENT OPERATORS**

Supervises and co-ordinates activities of workers engaged in recording and reproducing voice, music and other sounds for radio and television broadcasting, stage production and motion picture, stereo tape and phonograph record production.

Performs duties as described under Master Title SUPERVISOR/FOREMAN/WOMAN.

May supervise workers engaged in a particular activity and be designated accordingly, e.g.

Supervisor, Sound Recording

#### Job Content Factors

<b>Workers</b>	
FP: GE11-12y PSP2y(PPC)	IP: E5y
HC: RSE	RQ: Q2 U2 V1 A1
<b>Materials</b>	
SM: D2 I2 P1 T2	EQ: P2 S2 N2 K2
<b>Functions</b>	
MA: A1 P1 D1 R3 L2	
PA: P2 U2 C2 H2 S2 W2 E2	SA: L1 B1 R3-4
<b>Context</b>	
EC: T2 M1 L4	TC: A1 I1
SS: 9	SC: 9 (vy)
LMS: NA (0 %SE)	ASIC: 560,913

**9010-Z SUPERVISORS, ELECTRONIC AND COMMUNICATIONS EQUIPMENT OPERATING OCCUPATIONS nec**

This residual group covers occupations concerned with supervising and co-ordinating activities of workers engaged in operating electronic and communications equipment not elsewhere classified in Unit Group 9010.

### 9011 RADIO AND TELEGRAPH OPERATORS

This unit group covers occupations concerned with operating telegraph and radiotelegraph, or radiotelephone.

**Entry Requirements** a para-professional certificate with 2 years' experience.

**Activities include** transmitting and receiving signals; recording messages sent and received in written or typed form; transmitting and receiving messages by voice and recording same; and keeping daily logs of all operations.

**9011-A RADIO TELEGRAPHIST**  
Radio Operator, Aircraft; Radio Operator, Ship; Telegraph Operator

Transmits and receives messages by use of morse code transmitted by radio.

Switches on electric power, dons headphones or activates loud speaker. Uses controls to select appropriate circuits to contact receiving station(s). Transmits coded message by use of hand key. Receives messages by interpreting code and converting to plain language, and writes or types message for transit to designated person. Maintains record of messages sent and received.

#### Job Content Factors

<b>Workers</b>	
FP: GE11-12y PSP2y(PPC)	IP: E2y
HC: R	RQ: S1 A1

<b>Materials</b>	
SM: D2 P2 T1	EQ: P1 S2 K1
<b>Functions</b>	
MA: A2 D2 R2 M3 L2	
PA: P2 U1 C1 S1 E1	SA: S1
<b>Context</b>	
EC: L1	TC: A1 I1 R2
SS: 3	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 560

**9011-Z RADIO AND TELEGRAPH OPERATORS, nec**

This residual group covers radio and telegraph occupations not elsewhere classified in Unit Group 9011, e.g.

Telecommunications Officer, Aeronautical  
Radio Officer, Water Transport

9012 MOTION PICTURE PROJECTIONISTS

This unit group covers occupations concerned with operating motion picture projection and related equipment for the display of films and slides for amusement or education.

**Entry Requirements** a para-professional certificate.

**Activities include** selecting particular film in correct sequence; inserting film into projector; adjusting sound, focus and timing; ensuring continuity between reels of film; and observing quality of film in order to locate and repair defects.

9012-A MOTION PICTURE PROJECTIONIST  
Cinema Projectionist; Cinematograph  
Operator

Operates motion picture projection and sound reproducing equipment in theatre, drive-in or similar establishment.

Threads film into two or more projectors or, alternatively, makes up program platters. Switches on equipment, adjusts focus and sound, and changes over or closes down projectors as necessary. Performs running repairs, basic maintenance and regular running and safety checks. Must be fully conversant with the relevant safety provisions in respect of public buildings. May work alone or with assistant, or with one or more other projectionists in multi-projector booths.

May be required to operate slide projector, spotlight or similar equipment and/or to assist with general theatre maintenance. May be required to hold appropriate licence in accordance with State regulations.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE10y PSP2y(PPC)	IP: T2y
HC: R	RQ: V1 A2
<i>Materials</i>	
SM: T1	EQ: P1 S2
<i>Functions</i>	
MA: P2 D2 R3 M3 L2	
PA: P1 U1 C2 H1 E2	SA: S1
<i>Context</i>	
EC: L1	TC: A1 I1 R1
SS: 2-3	SC: 3-4 (vy)
LMS: NA (0 %SE)	ASIC: 913

9013 PERFORMING AND AUDIO-VISUAL ARTS EQUIPMENT OPERATORS

This unit group covers occupations concerned with operating performing and audio-visual arts equipment involved in the production of radio, television, stage or motion picture presentations.

**Entry Requirements** Year 11-12 and/or basic vocational qualifications.

**Activities include** operating console to control radio or television broadcast transmitters; operating video console to ensure that quality of filmed or live picture being transmitted meets established standards; operating multi-channel sound mixing console to regulate volume and quality of sound; recording sound during production on magnetic tape or film; controlling positioning of microphone; and operating lighting equipment used to illuminate set or studio during stage performance, television broadcasting or filming of motion picture scenes.

9013-A BROADCAST TRANSMITTER  
OPERATOR

Operates console to control radio or television broadcast transmitters.

Turns switches and controls, and observes meters and indicators to activate, control and monitor radio broadcast transmitters. Verifies that equipment operating parameters, such as power output, radiated frequency and modulation percentage meet specified standards, and adjusts console controls to correct any indicated discrepancies. Operates controls to switch program origination from one studio to another, to site of remote broadcast or to network as indicated by program schedule or on signal from station

manager. Operates microwave equipment to transmit video information to transmitter site or receives video signal from remote location.

May repair radio transmitters and associated equipment, using electronic test equipment, hand tools and power tools.

<i>Job Content Factors</i>	
<i>Workers</i>	
FP: GE11-12y PSP3m(B)	IP: T3y
or FP: GE11-12y	IP: T3y
HC: R	RQ: S1 U2 V2 A1
<i>Materials</i>	
SM: D2 T1	EQ: P1 S2 K1

*Functions*

MA: A2 P2 D2 R3 M3 L2

PA: P1 U1 C1 S1 E3

SA: S1

*Context*

EC: L1

TC: A1 I1

SS: 6

SC: 8 (vy)

LMS: NA (0 %SE)

ASIC: 560

**9013-B LIGHT TECHNICIAN**

Positions, sets up and operates various lighting equipment used to illuminate set or studio during stage performance, television broadcasting or motion picture scenes.

Studies script and confers with production personnel and chief electrician to determine lighting effects required. Co-ordinates activities with electrical crew in erecting metal scaffolding to support lighting equipment. Selects and positions equipment, such as spotlights and floodlights, manually or using hoist. Arranges cables into groups and connects conduits to source of electricity supply, using portable junction boxes. Operates lights during filming or broadcasting, following sheet or script. Varies intensity of light, using silk, spun glass or gelatin diffusion discs over lens of light source. Maintains and repairs lighting equipment.

May arrange for transportation of lighting equipment to remote locations.

*Job Content Factors**Workers*

FP: GE11-12y PSP3m(B)

IP: T3y

or FP: GE11-12y

IP: T3y

HC: A

RQ: Q1 U2 V1

*Materials*

SM: D2 I2 P2 T1

EQ: P1 S1 V1

*Functions*

MA: I1 A1 P1 D2 R2 M3 L2

PA: P1 U1 C1 H1 W1 B2 E3

SA: L1

*Context*

EC: T2 M1 L4

TC: A1 I1 T1

SS: 7

SC: 7 (vy)

LMS: NA (0 %SE)

ASIC: 913

**9013-C MICROPHONE BOOM OPERATOR**

Moves microphones on adjustable boom to position them in proximity of performers during filming of motion pictures or television broadcasts.

Attaches microphone to rubber support at end of boom to dampen vibrations and improve audio quality. Positions preamplifier on boom and attaches interconnecting cable assembly between microphone and preamplifier. Reads script to become familiar with actions of performers. Plugs in and wears microphone-earphone headset to enable communication with recording staff. Positions microphone such that it does not cast a shadow or come in view of camera. Positions stand microphone on stage or set when required. Moves boom according to script and position of performers or as directed by sound recorder. Examines and cleans equipment after performance and performs minor repairs.

*Job Content Factors**Workers*

FP: GE11-12y PSP3m(B)

IP: T3y

or FP: GE11-12y

IP: T3y

HC: A

RQ: Q2 V1 A1

*Materials*

SM: D2 I2 P2 T1

EQ: P2 S1 N1

*Functions*

MA: A1 P1 D2 R3 L2

PA: P1 U1 C1 H1 S2 W1 E2

SA: L1

*Context*

EC: T2 M1 L4

TC: A1 I1 T1

SS: 6

SC: 8 (vy)

LMS: NA (0 %SE)

ASIC: 913

**9013-D****SOUND MIXER**

Operates a multi-channel sound mixing console and associated equipment to regulate volume and quality of sound from several audio feeds.

Studies script to determine sound requirements for individual scenes. May obtain necessary tapes, records etc. from library. Determines acoustics of area. Directs selection, placement and adjustment of microphones. Monitors audio signals and actuates console controls to adjust output of various microphones or tape feeds. May instruct performers regarding microphone usage.

*Job Content Factors**Workers*

FP: GE11-12y PSP3m(B)

IP: T3y

or FP: GE11-12y

IP: T3y

HC: A

RQ: Q2 U2 V1 A1

*Materials*

SM: D2 P2 T1

EQ: P1

*Functions*

MA: A1 P1 D1 R3 L2

PA: P1 U2 C1 H1 W1 E2

SA: L1 B1 R4

*Context*

EC: T2 M1 L4

TC: A1 I1 T1

SS: 8

SC: 8 (vy)

LMS: NA (0 %SE)

ASIC: 913

**9013-E****SOUND RECORDING EQUIPMENT OPERATOR  
Sound Recordist**

Records sound during production on magnetic tape or film.

Threads tape as applicable. Actuates recording machine through console and monitors audio input/output to detect quality deviations or malfunctions. Adjusts controls as required. Records identity, content and playing time of tapes.

May undertake equipment preparation and minor maintenance as required, perform dubbing and editing duties, assemble programs from taped segments, reproduce recordings from master recordings, and be designated accordingly.

Dubbing Projectionist (Sound Mixing)

*Job Content Factors**Workers*

FP: GE11-12y PSP3m(B)

IP: T3y

or FP: GE11-12y

IP: T3y

HC: A

RQ: Q2 U2 V1 A1

*Materials*

SM: D2 P2 T1

EQ: P1 S2 K1

*Functions*

MA: A2 P1 D1 R3 L2

PA: P1 U2 C1 H2 E2

SA: L1

*Context*

EC: T2 M1 L4

TC: A1 I1 T1

SS: 8

SC: 8 (vy)

LMS: NA (0 %SE)

ASIC: 913

**9013-F****MOTION PICTURE CAMERA OPERATOR**

Sets up and operates camera to photograph scenes for motion picture presentation.

Confers with director of photography to receive instructions regarding such matters as type of film and lenses to be used, focus setting, distance of shot and angle of camera. Selects and attaches lens and film magazine to camera and adjusts focus and distance settings. Views scene through view finder and makes final adjustments to camera. Starts camera and photographs scene on receiving signal from director of photography. Moves camera and adjusts controls to follow action of scenes being photographed. Works in motion picture studio or on location.

**Job Content Factors**

**Workers**

FP: GE11-12y PSP3m(B) IP : T 1-3y  
or FP: GE11-12y IP : T 1-3y  
HC: AR RQ: Q1 U2 V1 A2

**Materials**

SM: D2 I2 P2 T1 EQ: P1 S2

**Functions**

MA: A1 P1 D2 R3 M3 L2  
PA: P1 U1 C1 H1 W1 E2 SA: L1

**Context**

EC: T2 M1 L4 TC: A1 I1 T1  
SS: 8 SC: 8 (vy)

LMS: NA (0 %SE)

ASIC: 913

**9013-G**

**TELEVISION CAMERA OPERATOR**

Operates a cine or electronic television camera, in studio or outdoors, to record events or scenes for direct telecast or for recording on celluloid film or videotape by engaging in a combination of the following duties.

Selects type of equipment and accessories to be used according to nature of assignment. Travels to assigned location and sets up equipment. Receives directions regarding studio camera shots through headphones from program producer. Adjusts controls of camera for light conditions, correct focus and other settings. Sights subject through view finder and starts camera and/or videotape recorder. Moves camera to follow action of subject and adjusts focus or lenses as required while maintaining balance and composition of picture.

May instruct other workers to move and set up equipment and/or to obtain special lighting requirements. May operate camera in conjunction with sound equipment or videotape recorder. May specialise in covering news events and be designated accordingly, e.g.

Television-News Camera Operator

**Job Content Factors**

**Workers**

FP: GE11-12y PSP3m(B) IP : T 1-3y  
or FP: GE11-12y IP: T1-3y  
HC: AR RQ: Q2 U1 V1 A2

**Materials**

SM: D2 P2 T1 EQ: P1 S1

**Functions**

MA: A1 P1 D2 R2 M3 L2  
PA: P1 U1 C1 H1 W1 E3 SA: L1 B2 R4

**Context**

EC: T2 M1 L4 TC: A1 I1 T1  
SS: 8 SC: 8 (vy)

LMS: NA (0 %SE)

ASIC: 913

**9013-Z**

**PERFORMING AND AUDIO-VISUAL  
ARTS EQUIPMENT OPERATORS nec**

This residual group covers performing and audio-visual arts equipment operators, not elsewhere classified in Unit Group 9013, mainly concerned with operating, monitoring and controlling radio and/or video recording and reproduction equipment to produce, record and transmit programs, in accordance with established standards and usually working under supervision, e.g.

Animation Camera Operator Dubbing Machine Operator  
Re-recording Mixer Sound Editor  
Telecine Operator Vision Switcher  
Master-Control Equipment Operator  
Mobile Broadcasting Equipment Set-up Person  
Racecourse Photo-Finish Camera Operator  
Switcher (Audio-Visual Arts)  
Video and Sound Recorder

**9019 OTHER ELECTRONIC AND COMMUNICATIONS EQUIPMENT OPERATING  
OCCUPATIONS**

This unit group covers occupations concerned with the use of various types of electronic and communications equipment not elsewhere classified in Minor Group 901.

**Activities include** operating automatic equipment used to transmit and receive data such as weather maps, printed material, photographs and drawings.

**9019-A**

**AUTOMATIC DATA-TRANSCIVER  
OPERATOR**

Operates automatic equipment used to transmit and receive data, such as weather maps, printed material, photographs and drawings.

Secures printed material, map or photograph to machine cylinder. Actuates switches or controls to connect equipment to designated radio or landline circuit. Starts equipment that scans data on drum and converts light variations to equivalent electrical impulses. Actuates controls to adjust contrast, to ensure acceptable copy at remote locations. Positions negative on cylinder to receive incoming data. Sorts outgoing data and routes it to specified recipients. Makes minor adjustments to equipment and reports malfunctions to superior. May maintain log of traffic handled.

May be designated according to information transmitted or media and equipment used, e.g.

Facsimile Operator Wire-Photo Operator, News  
Photo-Radio Operator

**Job Content Factors**

**Workers**

FP: GE10y IP: T3w  
HC: R RQ: V1

**Materials**

SM: D2 P2 T1 EQ: P1 S1 K1

**Functions**

MA: D2 R4 L3  
PA: P1 U1 C1 H1 S1 E2 SA: S1

<i>Context</i>	
EC: L1	TC: A1 I2
SS: 2	SC: 5 (vy)
LMS: NA (0 %SE)	ASIC: 560

# AN ALTERNATIVE APPROACH TO A KIND OF WORK STRUCTURE

## EXPLANATORY NOTES

As noted in the Introduction, two broad structures based on the "kind of work" criterion are presented in this working draft of the classification.

One of these structures, i.e. set of ASCO minor, major and super groups, is used for the presentation of ASCO occupations and unit groups in the Main Dictionary part of this document. Its development is described on pages x and xi of the Introduction.

The alternative structure portrayed here is, in essence, part of the process of further developing the Main Dictionary structure incorporating:

- some results of initial assessments of the overall operational feasibility of ASCO unit and broader groups in statistical applications; and
- further work in hand in applying the ASCO criteria (described on page xii of the Introduction) to empirical data.

The resultant structure has been presented as an alternative at this stage (rather than used as the Main Dictionary structure) because:

- user views on the two structures would assist in determining the direction of future development, and
- it introduces some new and perhaps less conventional groupings of occupations, particularly in the case of manual or "blue collar" occupations.

The considerations used in developing the alternative structure hitherto are described in more detail below.

## CONSIDERATIONS OF OPERATIONAL FEASIBILITY

As observed on page xii of the Introduction, operational feasibility is one of the considerations taken into account in determining ASCO occupations and its broader categories.

In the Commonwealth Employment Service (CES) this concerns primarily job applicant/job vacancy matching and related activities.

In the Australian Bureau of Statistics (ABS) and other organisations engaged in statistical work, operational feasibility relates principally to occupational coding, i.e. the matching of occupational responses (collected in the Population Census, Population Survey and other types of collection) with ASCO categories, especially at the unit group level, to enable the correct ASCO codes to be assigned to the recorded responses. This means that ASCO categories, and ASCO unit groups in particular, be so defined as to enable a very high proportion of the occupational responses to be unambiguously coded to them. An occupational classification that does not meet this requirement cannot be adopted and used for statistical work. However, in arising at an operationally feasible classification usefulness is, of course, a major consideration.

In developing ASCO to date the main thrust has been to arrive at occupational categories which attempt to reflect statistical and other user needs and which have been validated for technical correctness with organisations and individuals knowledgeable about occupations. The steps taken towards this objective are described in the Introduction. The extent to which these aims have been achieved probably varies across the classification.

The program to test this working draft (and any special test version derived from it) for operational feasibility is part of the next ASCO development phase.

However, some preliminary studies of operational feasibility of some Main Dictionary categories have already been undertaken with regard to statistical coding applications.

For example, a selected subset of data items from all relevant schedules of the August 1981 Population Survey was transcribed and entered into a computer file. The subset of data items included the precise occupation description or response provided by the respondent, the present ABS occupation code, the ASIC industry code, an income range code and an employment status code. The resulting file contains approximately 36,000 records. The data set has been intensively analysed.

One of the most generally useful techniques was the conduct of keyword searches of this file. A frequency distribution of all words occurring in all occupation responses was obtained. A subsequent analysis produced a listing, for each identified word, of all occupation responses containing that word. Thus, for example, a listing was obtained containing the word "manager", the word "teacher", the word "supervisor" etc. Further, the approach has been extended to extract all occupation responses containing specified pairs of words such as "managing supervisor" or "general manager" or "factory hand". This approach has made it possible to assess the feasibility of coding occupation responses to ASCO without actually coding each and every occupation response. This technique has also made it possible to target these searches into areas of specific concern e.g. mining occupations.

A similar approach has been used to test the statistical codability of selected Main Dictionary ASCO categories on the basis of data currently obtained in the Population Census. A 1% sample of all schedules from the 1981 Population Census was drawn and a selected subset of data items was transcribed and entered onto computer file. The data items included all those extracted from the Population Survey plus additional items such as age left school, post school qualifications etc. The resulting file contains approximately 60,000 records and has been analysed using similar techniques to those developed for the Population Survey.

These data sets will be further analysed over the next ASCO development phase to improve the classification and its structures.

Because of the confidentiality provisions of the Census and Statistics Act all these studies were undertaken within the ABS by ABS officers.

The analysis of these data sets has raised some doubts about the feasibility of some Main Dictionary categories at unit group and broader levels in statistical applications. The areas of concern identified so far relate to mining, manufacturing, construction, transport and materials handling occupations.

In the case of mining occupations, for example, there is very strong evidence that the Main Dictionary distinction, at minor group level and below, between underground and open cut mining occupations could not be sustained. The great majority of Census and Survey occupational responses relevant to mining occupations simply do not make this distinction at present. Similar problems seem to exist in the case of manufacturing occupations with regard to distinctions based on type of material worked on. For example, many process workers report their occupations simply as "process worker" without reference to whether the materials worked on by them are of wood, metals, plastics, textiles, etc.

These kinds of problems have been addressed to some extent in the development of the alternative ASCO structure presented below.

In addition to adjusting ASCO to the currently collected data, as described above, the ABS is also examining the possibility (within the ASCO feasibility testing program) of collecting more precise occupational descriptions in future censuses and surveys to sustain a more useful and detailed occupation classification than might be possible on the basis of the currently collected information. However, cost and privacy considerations place severe limitations on the number of additional occupation questions that could be asked in the future. Present indications are that, at best, two occupational questions might be asked in future collections for ASCO coding purposes in place of the one question at present. While this could be expected to improve the source data for coding purposes and help to sustain a more useful ASCO, it would be unrealistic to expect that this would overcome all the coding problems that may be discovered during feasibility testing.

As a consequence of the foregoing, modifications to the Main Dictionary ASCO structure on the basis of the preliminary feasibility tests have been confined to those that are unlikely to be resolved solely by the collection of somewhat better occupational data for future ASCO coding purposes.

## CONSIDERATION ARISING FROM FURTHER APPLICATION OF ASCO CRITERIA

### GENERAL CONSIDERATIONS

The ASCO development process envisages, as described on page xi of the Introduction, that three broad ASCO structures would be developed. Each would have the same set of occupations and unit groups but, by using the unit groups as building blocks, different minor and major groups (or even broader categories) would be devised by the application of only one or two of the ASCO criteria. The structures to be so devised are:

- i minor, major and, possibly, even broader groups obtained by aggregating unit groups into minor groups, minor groups into major groups, etc., by the application of the **KIND OF WORK** criterion,
- ii minor, major and, possibly even broader groups obtained by the same process of aggregation but by application of the **SKILL LEVEL** and **SKILL SPECIALISATION** criteria, and
- iii minor, major and, possibly, even broader groups obtained by the same process of aggregation but by the application of **SOCIO-ECONOMIC** criteria yet to be finalised.

This working draft only contains structures based largely on the kind of work criterion.

However, as illustrated by the two structures in this draft, application of the kind of work criterion does not, of itself, result in a particular structure. This is because there is considerable scope for interpretation and emphasis to be given to the various aspects of work encompassed by the criterion, e.g. outputs produced, materials worked on or equipment used.

In an attempt to solve this problem a methodology has been adopted for this alternative approach which:

- uses the tasks which make up each occupation, and
- applies objective measures to them to assess the degree to which a particular structure achieves the basic objective: the classification of occupations according to their similarity in type of work.

The measures are defined as properties of the cells of the classification so that they can be applied at unit, minor and major group levels. They are defined as:

- **CELL HOMOGENEITY:** This is the ratio of the number of occupations in a given cell whose tasks are primary to the cell over the total number of occupations in the cell; and
- **CELL COVERAGE:** This is the ratio of the number of occupations in a given cell whose tasks are primary to the cell over the total number of occupations in the classification whose tasks are primary to the cell.

A task is **PRIMARY** to a cell (e.g. an ASCO occupation, unit group or minor group) if it is listed in the cell description.

The following example illustrates the above concepts. Suppose there exist a number of occupations whose tasks involve selling and suppose there exists a major group of sales occupations. In order to maximize cell homogeneity one would require that the majority of occupations classified to the major group "sales" would list selling as their main task. Similarly, to maximise cell coverage, one would require that the majority of occupations whose main tasks are selling should be classified in the sales major group.

This approach requires that all cells of the classification at major, minor, unit group and occupation levels should identify and list the unique cluster of tasks which characterise and identify them. Occupation and unit group descriptions currently contain this information and there is only a need to extend the principle to major and minor groups. This procedure will, as a by-product, facilitate the accurate coding of responses in Population Censuses and Surveys - on the assumption that one of the questions will seek information on a respondent's principal tasks.

### *PRACTICAL APPLICATION*

The above methodology has led to the empirical determination of unique clusters of tasks and the resultant grouping of the relevant occupations into appropriate cells. The approach has been limited by the variations in content and quality of some of the occupation descriptions contained in ASCO as well as by some lack of standardisation of terms; many of these problems will no doubt be overcome before the production of the first edition of ASCO.

The approach has been assisted by the existence of widely recognised categories of occupations such as sales, clerical, service, etc, and an examination of the frequency distribution of occupation responses in the 1% sample drawn from the 1981 Population Census. A keyword search of these responses yielded large clusters of occupation titles such as process work, plant operator, machine operator, factory hand, labourer, foreman, supervisor, salesman, clerk, manager, etc. It was then found that the most frequently occurring occupation responses corresponded quite well with the unique clusters of tasks obtained by the content analysis of ASCO occupation descriptions.

The decision to treat the identifiable occupation clusters obtained by the above methodology as unit groups, minor groups, or major groups has been determined partly by the pattern of clustering and partly by labour market size considerations.

The results of this work and the resolution of problems which emerged from initial assessments of operational feasibility, described above, form the basis of the alternative kind of work ASCO structure presented below.

It was not possible to conduct such an analysis until all occupation descriptions and Job Content Factors (JCF's) became available and until the 1981 Population Census sample was processed. Since both of these data sets only became available in mid 1982 the analysis of both data sets has not been as complete nor as detailed as one might like. Future development of ASCO will include use of the technique of cluster analysis to group occupations in terms of selected subsets of JCF's. For these reasons both structures should be regarded as still subject to further development.

**ALTERNATIVE STRUCTURE  
LIST OF MAJOR AND MINOR GROUPS**

<b>01</b>	<b>MANAGERIAL AND SUPERVISORY OCCUPATIONS</b>	<b>03</b>	<b>PARA-PROFESSIONAL OCCUPATIONS</b>
		0301	TECHNICAL OFFICERS
0101	LEGISLATORS AND GOVERNMENT APPOINTED OFFICIALS	0303	SCIENCE TECHNICIANS
		0305	ENGINEERING TECHNICIANS
0103	MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	0307	AIR AND SEA TRANSPORT TECHNICAL OCCUPATIONS
		0309	NURSES
0105	SUPERVISORS/FOREMEN/WOMEN	0311	OTHER PARA-PROFESSIONAL OCCUPATIONS
<b>02</b>	<b>PROFESSIONAL OCCUPATIONS</b>	<b>04</b>	<b>CLERICAL AND RELATED OCCUPATIONS</b>
0201	NATURAL SCIENTISTS	0401	STENOGRAPHIC AND TYPING OCCUPATIONS
0203	BUILDING PROFESSIONALS AND ENGINEERS	0403	BOOKKEEPING, BANKING AND INSURANCE ACCOUNT RECORDING AND RELATED OCCUPATIONS
0205	HEALTH DIAGNOSIS AND TREATMENT PRACTITIONERS	0405	OFFICE BUSINESS MACHINE AND ELECTRONIC DATA PROCESSING EQUIPMENT OPERATORS
0207	SCHOOL TEACHERS	0407	SCHEDULING, DISPATCHING AND MATERIAL RECORDING OCCUPATIONS
0209	OTHER TEACHERS AND INSTRUCTORS	0409	LIBRARY, FILE, CORRESPONDENCE CLERKS AND RELATED OCCUPATIONS
0211	SOCIAL PROFESSIONALS	0411	RECEPTION, INFORMATION, MAIL AND MESSAGE DISTRIBUTION OCCUPATIONS
0213	BUSINESS PROFESSIONALS	0499	OTHER CLERICAL AND RELATED OCCUPATIONS
0215	ARTISTS AND RELATED OCCUPATIONS		
0217	OTHER PROFESSIONAL OCCUPATIONS		

**05 SALES OCCUPATIONS****0501 INVESTMENT, INSURANCE AND  
REAL ESTATE OCCUPATIONS****0503 SALES REPRESENTATIVES****0505 SALESPERSONS AND RELATED  
OCCUPATIONS****06 SERVICE OCCUPATIONS****0601 PROTECTIVE AND INVESTIGATIVE  
SERVICE OCCUPATIONS****0603 FOOD AND BEVERAGE  
PREPARATION AND SERVICE  
OCCUPATIONS****0605 ACCOMMODATION SERVICE  
OCCUPATIONS****0607 PERSONAL SERVICE  
OCCUPATIONS****0609 HEALTH AND WELFARE SERVICE  
OCCUPATIONS****0611 OTHER SERVICE OCCUPATIONS****07 TRADES AND OTHER  
SKILLED OCCUPATIONS  
(EXCEPT AGRICULTURE)****0701 METAL TRADESPERSONS AND  
APPRENTICES****0703 ELECTRICAL AND ELECTRONICS  
TRADESPERSONS AND  
APPRENTICES****0705 BUILDING TRADESPERSONS AND  
APPRENTICES****0707 PRINTING TRADESPERSONS AND  
APPRENTICES****0709 VEHICLE TRADESPERSONS AND  
APPRENTICES****0711 FOOD TRADESPERSONS AND  
APPRENTICES****0713 OTHER TRADESPERSONS AND  
APPRENTICES****0715 NON-APPRENTICEABLE SKILLED  
AND TRADE SUPPORT  
OCCUPATIONS****08 SKILLED AGRICULTURAL  
OCCUPATIONS****0801 FIELD CROP AND/OR LIVESTOCK  
PRODUCERS****0803 HORTICULTURAL CROP GROWERS****0899 OTHER SKILLED AGRICULTURAL  
OCCUPATIONS****09 PLANT OPERATING AND  
RELATED OCCUPATIONS****0901 ROAD AND RAIL TRANSPORT  
DRIVERS****0903 OTHER MOBILE EQUIPMENT  
OPERATORS****0905 CONTINUOUS PLANT OPERATORS****0907 HOISTING AND LOADING  
EQUIPMENT OPERATORS****0909 OTHER STATIONARY EQUIPMENT  
OPERATORS****10 PROCESSING,  
FABRICATING AND  
RELATED OCCUPATIONS****1001 MINERAL ORE PROCESSING  
OCCUPATIONS****1003 METAL, ELECTRICAL AND  
ELECTRONIC PRODUCTS  
PROCESSING & FABRICATING  
OCCUPATIONS****1005 RUBBER, CHEMICAL AND PLASTIC  
PRODUCTS PROCESSING &  
FABRICATING OCCUPATIONS****1007 WOOD AND PAPER PRODUCTS  
PROCESSING AND FABRICATING  
OCCUPATIONS**

1009	CLAY, GLASS AND STONE PROCESSING OCCUPATIONS	11	BASIC MANUAL OCCUPATIONS
1011	HIDE, YARN AND TEXTILE PRODUCTS PROCESSING AND FABRICATING OCCUPATIONS	1101	BASIC MANUAL OCCUPATIONS
1013	FOOD, TOBACCO AND BEVERAGE PRODUCTS PROCESSING OCCUPATIONS	12	OCCUPATIONS, NOT ELSEWHERE CLASSIFIED
1015	INSPECTING, TESTING AND QUALITY CONTROL OCCUPATIONS (NON-TRADES)	1201	RELIGIOUS OCCUPATIONS, NEC
		1203	PERFORMING ARTS OCCUPATIONS
1017	PACKAGING MACHINE OPERATORS	1205	SPORTING OCCUPATIONS
1099	OTHER PROCESSING OCCUPATIONS	13	MILITARY OCCUPATIONS

**ALTERNATIVE STRUCTURAL LIST****01      MANAGERIAL AND  
SUPERVISORY  
OCCUPATIONS****0101      LEGISLATORS AND  
GOVERNMENT APPOINTED  
OFFICIALS**

**0101-01      MEMBERS OF PARLIAMENT**  
0101-0101      Member of Parliament

**0101-03      VICE REGAL AND GOVERNMENT  
APPOINTED OFFICIALS**  
0101-0301      Governor or Governor-General  
0101-0303      Ambassador or High Commissioner  
0101-0305      Ombudsman/woman

**0103      MANAGERIAL AND  
ADMINISTRATIVE OCCUPATIONS**

**0103-01      GENERAL MANAGERS**  
0103-0101      General Manager (Upper Level)  
0103-0103      General Manager (Middle Level)  
0103-0105      General Manager (Lower Level)

**0103-03      FINANCE MANAGERS**  
0103-0301      Financial Manager (Senior Level)  
0103-0303      Financial Manager (Middle Level)  
0103-0305      Financial Manager (Lower Level)

**0103-05      SALES AND MARKETING MANAGERS**  
0103-0501      Sales and Marketing Manager (Senior Level)  
0103-0503      Sales and Marketing Manager (Middle Level)  
0103-0505      Sales and Marketing Manager (Lower Level)

**0103-07      PRODUCTION MANAGERS**  
0103-0701      Production Manager (Senior Level)  
0103-0703      Production Manager (Middle Level)  
0103-0705      Production Manager (Lower Level)

**0103-09      SUPPLY AND DISTRIBUTION MANAGERS**  
0103-0901      Supply and Distribution Manager (Senior Level)  
0103-0903      Supply and Distribution Manager (Middle Level)  
0103-0905      Supply and Distribution Manager (Lower Level)

**0103-11      PERSONNEL AND INDUSTRIAL  
RELATIONS MANAGERS**  
0103-1101      Personnel and Industrial Relations Manager  
(Senior Level)  
0103-1103      Personnel and Industrial Relations Manager  
(Middle Level)  
0103-1105      Personnel and Industrial Relations Manager  
(Lower Level)

**0103-13      DATA PROCESSING MANAGERS**  
0103-1301      Electronic Data Processing Manager (Senior  
Level)  
0103-1303      Electronic Data Processing Manager (Middle  
Level)  
0103-1305      Electronic Data Processing Manager (Lower  
Level)

**0103-15 ENGINEERING MANAGERS**

- 0103-1501 Engineering Manager (Senior Level)
- 0103-1503 Engineering Manager (Middle Level)
- 0103-1505 Engineering Manager (Lower Level)

**0103-17 RESEARCH MANAGERS**

- 0103-1701 Science Manager (Senior Level)
- 0103-1703 Science Manager (Middle Level)
- 0103-1705 Science Manager (Lower Level)

**0103-19 POLICY ADVISORY MANAGERS UNIQUE TO GOVERNMENT**

- 0103-1901 Government Policy Adviser (Senior Level)
- 0103-1903 Government Policy Adviser (Middle Level)
- 0103-1905 Government Policy Adviser (Lower Level)

**0103-99 OTHER MANAGEMENT OCCUPATIONS**

- 0103-9901 Manager, Senior Level, nec
- 0103-9903 Manager, Middle Level, nec
- 0103-9905 Manager, Lower Level, nec

**0105 SUPERVISORS/FOREMEN/WOMEN****0105-01 SUPERVISORS, PARA-PROFESSIONAL WORKERS**

- 0105-0101 Supervisor, Radio and Telegraph Operators
- 0105-0103 Supervisor, Motion Picture Projectionists
- 0105-0105 Supervisor, Radio and TV Broadcasting Equipment Operators
- 0105-0107 Lighting Supervisor
- 0105-0109 Supervisor, Sound Recording and Reproduction Equipment Operators
- 0105-0111 Foreman/woman, Photographic Processing Occupations
- 0105-0113 Nurse Educator
- 0105-0115 Nursing Supervisor
- 0105-0117 Marine Engineer Superintendent
- 0105-0119 Marine Superintendent (Deck)

**0105-03 SUPERVISORS, CLERICAL WORKERS**

- 0105-0301 Supervisor, Stenographers
- 0105-0303 Supervisor, Typists
- 0105-0305 Supervisor, Bookkeepers and Accounting Clerks
- 0105-0307 Supervisor, Bank Tellers and Clerks
- 0105-0309 Supervisor, Insurance Clerks
- 0105-0311 Supervisor, Statistical Clerks
- 0105-0313 Supervisor, Electronic Data Processing Equipment Operators
- 0105-0315 Supervisor, Office Business Machine Operators
- 0105-0317 Supervisor, Production and Scheduling Clerks
- 0105-0319 Supervisor, Shipping, Transportation and Receiving Clerks
- 0105-0321 Foreman/woman, Stores and Packaging Occupations
- 0105-0323 Supervisor, Library and File Clerks
- 0105-0325 Supervisor, Correspondence Clerks and Related Occupations
- 0105-0327 Supervisor, Telephonists
- 0105-0329 Supervisor, Postal
- 0105-0331 Supervisor, Collection Clerks
- 0105-0333 Station Master/Mistress, Railway
- 0105-0335 Station Officer, Railway
- 0105-0399 Supervisors, Clerical Workers, nec

**0105-05 SUPERVISORS, SALES WORKERS**

- 0105-0501 Buyer (General)
- 0105-0503 District Sales Manager (Insurance)
- 0105-0505 Field Supervisor (Insurance)
- 0105-0507 Manager, Real Estate Agents
- 0105-0509 Sales Supervisor (Retail/Wholesale Establishment)
- 0105-0511 Supervisor Manager (Retail/Wholesale Store)
- 0105-0599 Supervisors, Sales Workers, nec

**0105-07 SUPERVISORS, PROTECTIVE AND INVESTIGATIVE SERVICE WORKERS**

- 0105-0701 Commissioned Police Officer
- 0105-0703 Officer-in-Charge, Police Station
- 0105-0705 Officer-in-Charge, Police Special Section
- 0105-0707 Officer-in-Charge, Police Training Institution
- 0105-0709 Chief Officer, Fire Brigade
- 0105-0711 Deputy Chief Fire Officer
- 0105-0713 Shift Supervisor, Fire Brigade
- 0105-0715 Fire Prevention Officer
- 0105-0717 Chief Officer, Prison
- 0105-0719 Security Officer, Manager/Supervisor
- 0105-0721 Supervisor, Inspectors and Regulating Officers

**0105-09 SUPERVISORS, OTHER SERVICE WORKERS**

- 0105-0901 Managing Supervisor, Dining Establishment
- 0105-0903 Caterer
- 0105-0905 Managing Supervisor, Fast Food Outlet
- 0105-0907 Food Supervisor
- 0105-0909 Supervisor, Bar Attendants
- 0105-0911 Building Supervisor
- 0105-0913 Managing Supervisor, Hotel/Motel/Lodging House
- 0105-0915 Executive Housekeeper
- 0105-0917 Hotel Concierge
- 0105-0919 Managing Supervisor, Laundering and Dry-Cleaning Establishment
- 0105-0921 Managing Supervisor, Beauty Establishment
- 0105-0923 Managing Supervisor, Massage Establishment
- 0105-0925 Managing Supervisor, Hairdressing Establishment

**0105-11 SUPERVISORS, TRADESPERSONS AND APPRENTICES**

- 0105-1101 Foreman/woman, Metal Tradespersons and Apprentices
- 0105-1103 Foreman/woman, Building Tradespersons and Apprentices
- 0105-1105 Foreman/woman, Electrical Tradespersons and Apprentices
- 0105-1107 Foreman/woman, Food Tradespersons and Apprentices
- 0105-1109 Foreman/woman, Printing Tradespersons and Apprentices
- 0105-1111 Foreman/woman, Clothing/Textile Tradespersons and Apprentices
- 0105-1113 Foreman/woman, Other Tradespersons and Apprentices

**0105-13 SUPERVISORS, PLANT OPERATORS**

- 0105-1301 Supervisor, Road and Rail Transport Drivers
- 0105-1303 Foreman/woman, Other Mobile Equipment Operators
- 0105-1305 Foreman/woman, Continuous Plant Operating
- 0105-1307 Foreman/woman, Hoisting and Loading Equipment Operators
- 0105-1309 Foreman/woman, Other Stationary Equipment Operators
- 0105-1311 Foreman/woman, Other Mining Occupations
- 0105-1313 System Control Operator

**0105-15 SUPERVISORS, PROCESS WORKERS**

- 0105-1501 Foreman/woman, Mineral Ore Treating Occupations
- 0105-1503 Foreman/woman, Metal Processing and Fabricating Occupations
- 0105-1505 Foreman/woman, Chemicals and Petroleum Process Occupations
- 0105-1507 Foreman/woman, Rubber Production Occupations
- 0105-1509 Foreman/woman, Plastics Production Occupations
- 0105-1511 Foreman/woman, Wood and Paper Processing and Fabricating Occupations
- 0105-1513 Foreman/woman, Food and Beverage Processing Occupations
- 0105-1515 Foreman/woman, Clay, Glass and Stone Processing and Fabricating Occupations
- 0105-1517 Foreman/woman, Textile Product Occupations
- 0105-1519 Foreman/woman, Packaging
- 0105-1521 Supervisors, Testing and Inspecting

**0105-17 SUPERVISORS, BASIC MANUAL WORKERS**

- 0105-1701 Supervisor, Mine Ventilation
- 0105-1703 Foreman/woman, Freight Loading/unloading Occupations
- 0105-1705 Boatswain
- 0105-1707 Forest Overseer
- 0105-1709 Foreman/woman, Logging
- 0105-1711 Supervisor, Industrial Cleaners
- 0105-1799 Supervisors, Basic Manual Workers, nec

**02 PROFESSIONAL OCCUPATIONS****0201 NATURAL SCIENTISTS****0201-01 CHEMISTS**

- 0201-0101 Chemist (General)
- 0201-0103 Research Chemist
- 0201-0105 Agricultural Chemist
- 0201-0107 Analytical Chemist
- 0201-0109 Food Chemist

**0201-03 EARTH SCIENTISTS**

- 0201-0301 Geologist
- 0201-0303 Geophysicist
- 0201-0305 Meteorologist
- 0201-0307 Physical Geographer

**0201-05 PHYSICISTS**

- 0201-0501 Physicist (General)
- 0201-0503 Astronomer
- 0201-0505 Atomic Physicist
- 0201-0507 Nuclear Physicist
- 0201-0509 Solid-State Physicist

**0201-07 AGRICULTURAL SCIENTISTS**

- 0201-0701 Agricultural Extension Officer
- 0201-0703 Agricultural Scientist
- 0201-0705 Animal Scientist
- 0201-0707 Farm Consultant
- 0201-0709 Plant Scientist
- 0201-0711 Soil Scientist
- 0201-0713 Oenologist

**0201-09 FORESTERS**

- 0201-0901 Forester

**0201-11 BIOLOGICAL SCIENTISTS**

- 0201-1101 Anatomist
- 0201-1103 Aquatic Biologist
- 0201-1105 Biochemist
- 0201-1107 Biophysicist
- 0201-1109 Botanist
- 0201-1111 Ecologist
- 0201-1113 Entomologist
- 0201-1115 Geneticist
- 0201-1117 Microbiologist
- 0201-1119 Parasitologist
- 0201-1121 Pharmacologist
- 0201-1123 Physiologist
- 0201-1125 Zoologist

**0201-13 CLINICAL SCIENTISTS**

- 0201-1301 Clinical Physical Scientist
- 0201-1303 Medical Laboratory Scientist
- 0201-1305 Pathologist
- 0201-1399 Clinical Scientists, nec

**0201-99 OTHER NATURAL SCIENTISTS**

- 0201-9901 Environmental Scientist
- 0201-9903 Materials Scientist
- 0201-9999 Other Natural Scientists, nec

**0203 BUILDING PROFESSIONALS AND ENGINEERS****0203-01 ARCHITECTS**

0203-0101 Architect

0203-0103 Landscape Architect

**0203-03 BUILDINGS OFFICERS AND QUANTITY SURVEYORS**

0203-0301 Building Officer

0203-0303 Quantity Surveyor

**0203-05 CARTOGRAPHERS AND SURVEYORS**

0203-0501 Cartographer

0203-0503 Surveyor

**0203-07 CHEMICAL ENGINEERS**

0203-0701 Chemical Engineer (Design)

0203-0703 Chemical Engineer (Production)

0203-0705 Chemical Engineer (Research)

**0203-09 CIVIL ENGINEERS**

0203-0901 Civil Engineer (Construction)

0203-0903 Civil Engineer (Design)

0203-0905 Civil Engineer (Operations)

0203-0907 Civil Engineer (Research)

**0203-11 ELECTRICAL ENGINEERS**

0203-1101 Electrical Engineer (Research)

0203-1103 Communications Engineer

0203-1105 Electrical Power Engineer

0203-1107 Electronic Engineer

0203-1199 Electrical Engineers, nec

**0203-13 MECHANICAL ENGINEERS**

0203-1301 Mechanical Engineer (Research)

0203-1303 Mechanical Engineer (Construction)

0203-1305 Mechanical Engineer (Design)

0203-1307 Mechanical Engineer (Operations)

0203-1309 Mechanical Engineer (Production)

**0203-15 MINING ENGINEERS**

0203-1501 Mining Engineer

**0203-17 METALLURGISTS**

0203-1701 Extractive Metallurgist

0203-1703 Physical Metallurgist

**0203-19 OTHER ENGINEERS**

0203-1901 Aeronautical Engineer

0203-1903 Agricultural Engineer

0203-1905 Naval Architect

0203-1907 Materials Engineer

0203-1999 Other Engineers, nec

**0205 HEALTH DIAGNOSIS AND TREATMENT PRACTITIONERS****0205-01 GENERAL MEDICAL PRACTITIONERS**

0205-0101 Medical Practitioner, General

**0205-03 SPECIALIST MEDICAL PRACTITIONERS**

0205-0301 Anaesthetist

0205-0303 Cardiologist

0205-0305 Obstetrician and Gynaecologist

0205-0307 Ophthalmologist

0205-0309 Orthopaedic Specialist

0205-0311 Psychiatrist

0205-0313 Radiologist

0205-0315 Paediatrician

0205-0317 Thoracic Specialist

0205-0319 Dermatologist

0205-0321 Gastroenterologist

0205-0323 Otorhinolaryngologist

0205-0325 Urologist

0205-0399 Specialist Medical Practitioners, nec

**0205-05 DENTAL PRACTITIONERS**

0205-0501 Dentist

0205-0503 Dental Specialist

**0205-07 PHARMACISTS**

0205-0701 Hospital Pharmacist

0205-0703 Industrial Pharmacist

0205-0705 Retail Pharmacist

0205-0799 Pharmacists, nec

**0205-09 OCCUPATIONAL THERAPISTS**

0205-0901 Occupational Therapist

**0205-11 OPTOMETRISTS**

0205-1101 Optometrist

**0205-13 PHYSIOTHERAPISTS**

0205-1301 Physiotherapist

**0205-15 SPEECH PATHOLOGISTS**

0205-1501 Speech Pathologist

**0205-17 CHIROPRACTORS AND OSTEOPATHS**

0205-1701 Chiropractor/Osteopath

0205-1703 Osteopath

**0205-19 PODIATRISTS**

0205-1901 Podiatrist

**0205-21 VETERINARIANS**

0205-2101 Veterinarian

**0205-99 OTHER HEALTH DIAGNOSIS AND TREATMENT PRACTITIONERS**

0205-9901 Audiologist

0205-9903 Dietitian

0205-9905 Orthoptist

0205-9907 Prosthetist/Orthotist

0205-9999 Other Health Diagnosis and Treatment Practitioners, nec

**0207 SCHOOL TEACHERS****0207-01 PRE-PRIMARY SCHOOL TEACHERS**

0207-0101 Pre-Primary School Teacher

**0207-03 PRIMARY SCHOOL TEACHERS**

0207-0301 Infant School Teacher

0207-0303 Primary School Teacher

0207-0305 Primary School Teacher, Arts and Crafts

0207-0307 Primary School Teacher, Music

0207-0309 Primary School Teacher, Physical Education

0207-0311 Primary School Teacher, Librarian

**0207-05 SECONDARY SCHOOL TEACHERS**

0207-0501 Secondary School Teacher, Arts and Crafts

0207-0503 Secondary School Teacher, Home Economics

0207-0505 Secondary School Teacher, Physical Education

0207-0507 Secondary School Teacher, Manual/Industrial Arts

0207-0509 Secondary School Teacher, Careers

0207-0511 Secondary School Teacher, Librarian

0207-0513 Secondary School Teacher, Academic Subjects

0207-0515 Secondary School Teacher, Music

**0207-07 TEACHERS OF EXCEPTIONAL CHILDREN**

0207-0701 Remedial Teacher

0207-0703 Teacher of Intellectually Handicapped

0207-0705 Teacher of Physically Handicapped

0207-0799 Teachers of Exceptional Children, nec

**0209 OTHER TEACHERS AND INSTRUCTORS****0209-01 ACADEMIC TEACHERS, UNIVERSITY AND CAE**

0209-0101 Lecturer/Tutor, Business Studies (Higher Education)

0209-0103 Lecturer/Tutor, Secretarial Studies (Higher Education)

0209-0104 Lecturer/Tutor, Agricultural Sciences (Higher Education)

0209-0105 Lecturer/Tutor, Music (Higher Education)

0209-0106 Lecturer/Tutor, Religious Studies (Higher Education)

0209-0107 Lecturer/Tutor, Biological Sciences (Higher Education)

0209-0109 Lecturer/Tutor, Chemistry (Higher Education)

0209-0111 Lecturer/Tutor, Earth Sciences (Higher Education)

0209-0113 Lecturer/Tutor, Food Sciences and Technology (Higher Education)

0209-0115 Lecturer/Tutor, Materials Science (Higher Education)

0209-0117 Lecturer/Tutor, Physics (Higher Education)

0209-0119 Lecturer/Tutor, Environmental Studies (Higher Education)

0209-0121 Lecturer/Tutor, Veterinary Science (Higher Education)

0209-0123 Lecturer/Tutor, Chemical Engineering (Higher Education)

0209-0125 Lecturer/Tutor, Civil Engineering (Higher Education)

0209-0127 Lecturer/Tutor, Electrical/Electronic Engineering (Higher Education)

0209-0129 Lecturer/Tutor, Industrial and Production Engineering (Higher Education)

0209-0131 Lecturer/Tutor, Mechanical Engineering (Higher Education)

0209-0133 Lecturer/Tutor, Mining Engineering (Higher Education)

0209-0135 Lecturer/Tutor, Computer Science/Electronic Data Processing (Higher Education)

0209-0137 Lecturer/Tutor, Mathematics (Higher Education)

0209-0139 Lecturer/Tutor, Statistics (Higher Education)

0209-0141 Lecturer/Tutor, Architecture (Higher Education)

0209-0143 Lecturer/Tutor, Building (Higher Education)

0209-0145 Lecturer/Tutor, Surveying (Higher Education)

0209-0147 Lecturer/Tutor, Anthropology (Higher Education)

0209-0149 Lecturer/Tutor, Economics (Higher Education)

0209-0151 Lecturer/Tutor, Geography (Higher Education)

0209-0153 Lecturer/Tutor, Law (Higher Education)

0209-0155 Lecturer/Tutor, Librarianship (Higher Education)

0209-0157 Lecturer/Tutor, Political Science (Higher Education)

0209-0159 Lecturer/Tutor, Psychology (Higher Education)

0209-0161 Lecturer/Tutor, Social/Welfare Work (Higher Education)

0209-0163 Lecturer/Tutor, Sociology (Higher Education)

0209-0165 Lecturer/Tutor, Urban and Regional Planning (Higher Education)

0209-0167 Lecturer/Tutor, History (Higher Education)

0209-0169 Lecturer/Tutor, Classical Studies (Higher Education)

0209-0171 Lecturer/Tutor, English (Higher Education)

0209-0173 Lecturer/Tutor, Modern Languages (Higher Education)

0209-0175 Lecturer/Tutor, Philosophy (Higher Education)

0209-0177 Lecturer/Tutor, Education (Higher Education)

0209-0179 Lecturer/Tutor, Early Childhood Teacher Education (Higher Education)

0209-0181 Lecturer/Tutor, Primary Teacher Education (Higher Education)

0209-0182 Lecturer/Tutor, Secondary Teacher Education (Higher Education)

0209-0183 Lecturer/Tutor, Special Teacher Education (Higher Education)

0209-0184 Lecturer/Tutor, Tertiary Teacher Education (Higher Education)

0209-0185 Lecturer/Tutor, Medical Sciences (Higher Education)

0209-0186 Lecturer/Tutor, Dentistry (Higher Education)

0209-0187 Lecturer/Tutor, Medical Technology (Higher Education)

0209-0188 Lecturer/Tutor, Nursing (Higher Education)

0209-0189 Lecturer/Tutor, Nutrition and Dietetics (Higher Education)

0209-0190 Lecturer/Tutor, Pharmacy (Higher Education)

0209-0191 Lecturer/Tutor, Design (Higher Education)

0209-0192 Lecturer/Tutor, Dramatic Arts (Higher Education)

0209-0193 Lecturer/Tutor, Fine Arts (Higher Education)

0209-0194 Lecturer/Tutor, Professional Writing and Journalism (Higher Education)

0209-0199 Other Academic Teachers, University and CAE

**0209-03 TAFE TEACHERS (TRADE)**

0209-0301 Teacher, Metal Trades (TAFE)

0209-0303 Teacher, Electrical Trades (TAFE)

0209-0305 Teacher, Building Trades (TAFE)

0209-0307 Teacher, Printing Trades (TAFE)

0209-0309 Teacher, Vehicle Trades (TAFE)

0209-0311 Teacher, Food Trades (TAFE)

0209-0399 TAFE Teachers, Other Trades

**0209-05 TAFE TEACHERS (NON-TRADE)**

0209-0501	Teacher, Applied Science (TAFE)
0209-0503	Teacher, Art and Design (TAFE)
0209-0505	Teacher, Building (TAFE)
0209-0507	Teacher, Business Studies (TAFE)
0209-0509	Teacher, Engineering (TAFE)
0209-0511	Teacher, Horticultural and Agricultural Studies (TAFE)
0209-0513	Teacher, Industrial Services (TAFE)
0209-0515	Teacher, Music (TAFE)
0209-0517	Teacher, Paramedical Studies (TAFE)
0209-0519	Teacher, Personal Services (TAFE)
0209-0521	Teacher, General Studies (TAFE)

**0209-07 EXTRA SYSTEMIC TEACHERS AND INSTRUCTORS**

0209-0701	Art Teacher, nec
0209-0703	Music Teacher, nec
0209-0705	Teacher, Dance
0209-0707	Drama Teacher
0209-0709	Private Tutor
0209-0711	Driving Instructor/Instructress, Motor Vehicle
0209-0713	Flying Instructor
0209-0799	Extra Systemic Teachers and Instructors, nec

**0211 SOCIAL PROFESSIONALS****0211-01 SOCIAL WORKERS**

0211-0101	Community Social Worker
0211-0103	Social Case Worker
0211-0105	Social Planner/Administrator
0211-0199	Social Workers, nec

**0211-03 COUNSELLORS**

0211-0301	Counsellor, General
0211-0303	Family Law Court Counsellor
0211-0305	Rehabilitation Counsellor

**0211-05 JUDGES, MAGISTRATES AND MEDIATORS**

0211-0501	Coroner
0211-0503	Judge
0211-0505	Stipendiary Magistrate
0211-0507	Member, Administrative Appeals Tribunal
0211-0509	Member, Industrial Tribunal

**0211-07 LAWYERS**

0211-0701	Barrister
0211-0703	Corporate Legal Officer
0211-0705	Parliamentary Counsel
0211-0707	Solicitor
0211-0709	Patent Attorney
0211-0799	Lawyers, nec

**0211-09 OTHER LEGAL PROFESSIONALS**

0211-0901	Articled Clerk
0211-0903	Court Registrar
0211-0905	Master, Court
0211-0907	Patent Examiner
0211-0999	Other Legal Professionals, nec

**0211-11 MINISTERS OF RELIGION**

0211-1101	Minister (Christian)
0211-1103	Rabbi
0211-1105	Student Minister

**0213 BUSINESS PROFESSIONALS****0213-01 ACCOUNTANTS AND AUDITORS**

0213-0101	Accountant (General)
0213-0103	Cost Accountant
0213-0105	Financial Accountant
0213-0107	Auditor
0213-0109	Bursar

**0213-03 ORGANISATION AND METHODS ANALYSTS**

0213-0301	Methods and Procedures Analyst
0213-0303	Organisational Analyst
0213-0305	Record Systems Analyst

**0213-05 PERSONNEL SPECIALISTS**

0213-0501	Personnel Officer
0213-0503	Training Officer
0213-0505	Staff Development Officer
0213-0507	Industrial Relations Officer

**0213-07 DATA PROCESSORS**

0213-0701	Computer Programmer
0213-0703	Computer Scientist
0213-0705	Systems Analyst
0213-0707	Systems Programmer
0213-0799	Data Processors, nec

**0213-99 OTHER BUSINESS PROFESSIONALS**

0213-9901	Procurement Officer
0213-9903	Public Relations Officer
0213-9905	Medical Record Administrator
0213-9907	Trust Officer
0213-9909	Forms Analyst and Designer
0213-9911	Administrative Officer
0213-9913	Properties Investment Manager
0213-9999	Other Business Professionals, nec

**0215 ARTISTS AND RELATED OCCUPATIONS****0215-01 PAINTERS, SCULPTORS AND RELATED OCCUPATIONS**

0215-0101	Artist
0215-0103	Photographer
0215-0105	Printmaker
0215-0107	Sculptor

**0215-03 DESIGNERS AND ILLUSTRATORS**

0215-0301	Fashion Designer
0215-0303	Graphic Designer
0215-0305	Industrial Designer
0215-0307	Interior Designer
0215-0309	Illustrator

**0215-05 JOURNALISTS**

0215-0501	Associate Editor
0215-0503	Chief of Staff (News)
0215-0505	Leader Writer
0215-0507	Reporter
0215-0509	Sub-Editor
0215-0511	Copy-Writer
0215-0599	Journalists, nec

**0215-07 AUTHORS AND RELATED OCCUPATIONS**

0215-0701 Author  
 0215-0703 Script Writer  
 0215-0705 Book Editor  
 0215-0707 Script Editor  
 0215-0709 Translator

**0215-09 FILM, TELEVISION AND STAGE DIRECTORS**

0215-0901 Art Director (Television, Films and Stage)  
 0215-0903 Casting Director  
 0215-0905 Director (Film and Stage)  
 0215-0907 Director of Photography  
 0215-0909 Film Editor  
 0215-0911 Floor Manager (Television)  
 0215-0913 Director (Broadcasting)  
 0215-0915 Technical Producer

**0215-11 COMPOSERS AND RELATED OCCUPATIONS**

0215-1101 Composer  
 0215-1103 Music Arranger  
 0215-1105 Music Copyist  
 0215-1107 Orchestrator

**0215-13 CHOREOGRAPHERS**

0215-1301 Choreographer

**0217 OTHER PROFESSIONAL OCCUPATIONS****0217-01 ECONOMISTS**

0217-0101 Economist, General  
 0217-0103 Economist, Research  
 0217-0105 Agricultural Economist  
 0217-0107 Econometrician  
 0217-0109 Financial Economist  
 0217-0111 Industrial Economist  
 0217-0113 Investment Analyst  
 0217-0115 Transport Economist

**0217-03 PSYCHOLOGISTS**

0217-0301 Clinical Psychologist  
 0217-0303 Counselling Psychologist  
 0217-0305 Educational Psychologist  
 0217-0307 Occupational Psychologist

**0217-05 OTHER SOCIAL SCIENTISTS**

0217-0501 Urban and Regional Planner  
 0217-0503 Anthropologist  
 0217-0505 Geographer  
 0217-0507 Historian  
 0217-0509 Home Economist  
 0217-0511 Sociologist  
 0217-0513 Political Scientist  
 0217-0515 Criminologist  
 0217-0599 Other Social Scientists, nec

**0217-07 MATHEMATICIANS, STATISTICIANS AND ACTUARIES**

0217-0701 Mathematician (General)  
 0217-0703 Research Mathematician  
 0217-0705 Actuary  
 0217-0707 Applied Statistician  
 0217-0709 Mathematical Statistician  
 0217-0711 Operations Research Analyst

**0217-09 EDUCATION RESEARCH AND RELATED OCCUPATIONS**

0217-0901 Educational Research Officer  
 0217-0903 Curriculum Development Officer  
 0217-0905 School Inspector, Primary  
 0217-0907 School Inspector, Secondary  
 0217-0999 Other Education Research and Related Occupations

**0217-11 LIBRARIANS**

0217-1101 Librarian

**0217-99 OTHER PROFESSIONAL OCCUPATIONS**

0217-9901 Curator  
 0217-9903 Archivist  
 0217-9905 Research Workers, nec  
 0217-9907 Student Activities Officer  
 0217-9909 Recreation Officer  
 0217-9999 Other Professional Occupations, nec

**03 PARA-PROFESSIONAL OCCUPATIONS****0301 TECHNICAL OFFICERS****0301-01 PHYSICAL SCIENCE TECHNICAL OFFICERS**

0301-0101 Chemistry Technical Officer  
 0301-0103 Earth Sciences Technical Officer  
 0301-0105 Physics Technical Officer  
 0301-0107 Textiles Technical Officer

**0301-03 LIFE SCIENCE TECHNICAL OFFICERS**

0301-0301 Agricultural Technical Officer  
 0301-0303 Biology Technical Officer  
 0301-0305 Microbiology Technical Officer

**0301-05 ENGINEERING TECHNICAL OFFICERS**

0301-0501 Civil Engineering Technical Officer  
 0301-0503 Electrical Engineering Technical Officer  
 0301-0505 Electronics Engineering Technical Officer  
 0301-0507 Mechanical Engineering Technical Officer  
 0301-0509 Process Control Technical Officer  
 0301-0599 Engineering Technical Officers, nec

**0301-07 ARCHITECTURE, BUILDING AND SURVEYING TECHNICAL OFFICERS**

0301-0701 Architectural Technical Officer  
 0301-0703 Building Technical Officer  
 0301-0705 Cartography Technical Officer  
 0301-0707 Surveying Draftsman/woman  
 0301-0709 Surveying Technical Officer  
 0301-0799 Architecture, Building and Surveying Technical Officers, nec

**0303 SCIENCE TECHNICIANS****0303-01 PHYSICAL SCIENCE TECHNICIANS**

0303-0101 Chemistry Technician  
 0303-0103 Geology Technician  
 0303-0105 Geophysics Technician  
 0303-0107 Hydrological Technician  
 0303-0109 Meteorological Observer  
 0303-0111 Physics Technician  
 0303-0113 Testing Technician

**0303-03 LIFE SCIENCE TECHNICIANS**

0303-0301 Agricultural Field Technician  
 0303-0303 Animal Technician  
 0303-0305 Botanical Technician  
 0303-0307 Forestry Technician  
 0303-0309 Veterinary Nurse  
 0303-0311 Medical Laboratory Technician

**0305 ENGINEERING TECHNICIANS****0305-01 CIVIL ENGINEERING TECHNICIANS**

0305-0101 Civil Engineering Technician

**0305-03 ELECTRICAL ENGINEERING TECHNICIANS**

0305-0301 Electrical Engineering Technician

**0305-05 ELECTRONICS ENGINEERING TECHNICIAN**

0305-0501 Electronics Engineering Technician

**0305-07 MECHANICAL ENGINEERING TECHNICIANS**

0305-0701 Mechanical Engineering Technician

**0305-99 OTHER ENGINEERING TECHNICIANS**

0305-9901 Chemical Engineering Technician  
 0305-9903 Metallurgical Technician  
 0305-9905 Mining Technician  
 0305-9999 Other Engineering Technicians, nec

**0307 AIR AND SEA TRANSPORT TECHNICAL OCCUPATIONS****0307-01 AIRCRAFT PILOTS**

0307-0101 Airline Pilot  
 0307-0103 Commercial Pilot, General Aviation  
 0307-0105 Helicopter Pilot  
 0307-0199 Aircraft Pilots, nec

**0307-03 AIRWAYS SURVEYORS AND EXAMINERS OF AIRMEN/WOMEN**

0307-0301 Airways Surveyor  
 0307-0303 Examiner of Aircrew

**0307-05 AIR TRANSPORT OPERATING SUPPORT OCCUPATIONS**

0307-0501 Air Traffic Controller  
 0307-0503 Flight Service Officer, Government  
 0307-0505 Operations Controller, Air Transport (Government)  
 0307-0599 Air Transport Operating Support Occupations nec

**0307-07 SHIP S PILOTS AND DECK OFFICERS**

0307-0701 Ship s Pilot  
 0307-0703 Master, Ship  
 0307-0705 Ship s Mate  
 0307-0707 Master, Tug  
 0307-0709 Master, Ferry Boat/Passenger Launch/River Boat  
 0307-0799 Ship s Pilots and Deck Officers, nec

**0307-99 OTHER AIR AND SEA TRANSPORT OPERATING OCCUPATIONS**

0307-9901 Flight Engineer  
 0307-9903 Airworthiness Surveyor  
 0307-9905 Aircraft Navigator  
 0307-9907 Marine Engineer  
 0307-9909 Marine Engineer Surveyor  
 0307-9911 Marine Surveyor  
 0307-9999 Other Air and Sea Transport Operating Occupations, nec

**0309 NURSES****0309-01 GENERAL NURSES**

0309-0101 General Registered Nurse

**0309-03 SPECIALIST NURSES**

0309-0301 Community Health Nurse  
 0309-0303 Midwifery Nurse  
 0309-0305 Mental Retardation Nurse  
 0309-0307 Psychiatric Nurse  
 0309-0399 Specialist Nurses, nec

**0309-05 NURSES IN TRAINING**

0309-0501 Student Nurse

**0311 OTHER PARA-PROFESSIONAL OCCUPATIONS****0311-01 WELFARE WORKERS**

0311-0101 Community Worker  
 0311-0103 Parole Officer  
 0311-0105 Probation Officer  
 0311-0107 Welfare Officer  
 0311-0109 Youth Worker

**0311-03 RADIOGRAPHERS**

0311-0301 Medical Diagnostic Radiographer  
 0311-0303 Medical Therapeutic Radiographer

**0311-05 MEDICAL TECHNICAL SUPPORT OCCUPATIONS**

0311-0501 Cardiac Technician  
 0311-0503 Dental Therapist  
 0311-0505 Optical Dispenser  
 0311-0507 Audiometrist  
 0311-0509 Medical Nucleographer  
 0311-0599 Medical Technical Support Occupations, nec

**0311-07 COMMERCIAL ART SUPPORT OCCUPATIONS**

0311-0701 Finished Artist  
 0311-0703 Layout Artist  
 0311-0705 Paste-up Artist  
 0311-0707 Photograph Retoucher  
 0311-0709 Studio Assistant  
 0311-0799 Commercial Art Support Occupations, nec

**0311-09 PERFORMING ARTS TECHNICAL SUPPORT OCCUPATIONS**

0311-0901 Motion Picture Camera Operator  
 0311-0903 Television Camera Operator  
 0311-0905 Light Technician  
 0311-0907 Microphone Boom Operator  
 0311-0909 Sound Mixer  
 0311-0911 Sound Recordist  
 0311-0913 Broadcast Transmitter Operator  
 0311-0999 Performing Arts Technical Support Occupations nec

**0311-99 OTHER PARA-PROFESSIONAL OCCUPATIONS, NEC**

0311-9901 Radio Telegraphist  
 0311-9903 Master Fisherman/woman, Sea-Going Fishing Vessels  
 0311-9905 Museum Technician  
 0311-9907 Library Technician  
 0311-9909 Window Dresser  
 0311-9911 Park Ranger  
 0311-9913 Torque/Turn Computer Operator  
 0311-9915 Directional Drill Operator  
 0311-9999 Other Para-Professional Occupations, nec

**04 CLERICAL AND RELATED OCCUPATIONS****0401 STENOGRAPHIC AND TYPING OCCUPATIONS****0401-01 OFFICE SECRETARIES AND STENOGRAPHERS**

0401-0101 Office Secretary  
 0401-0103 Court Reporter  
 0401-0105 Stenographer

**0401-03 TYPISTS AND TYPIST-CLERKS**

0401-0301 Dictatypist  
 0401-0303 Typist-Clerk  
 0401-0305 Typist  
 0401-0307 Word Processor Operator  
 0401-0309 Telex Operator

**0403 BOOKKEEPING, BANKING AND INSURANCE ACCOUNT RECORDING AND RELATED OCCUPATIONS****0403-01 BOOKKEEPERS AND ACCOUNTING CLERKS**

0403-0101 Bookkeeper  
 0403-0103 Cost Clerk  
 0403-0105 Audit Clerk  
 0403-0107 Accounts Clerk  
 0403-0109 Cashier, Office  
 0403-0111 Payroll Clerk  
 0403-0113 Bank Accountant/Branch Accountant  
 0403-0115 Credit Officer

**0403-03 BANK TELLERS AND CLERKS**

0403-0301 Bank Teller  
 0403-0303 Bank Officer

**0403-05 INSURANCE CLERKS**

0403-0501 Clerk, General Insurance  
 0403-0503 Clerk, Policy Holder Services  
 0403-0599 Insurance Clerks, nec

**0403-07 STATISTICAL CLERKS**

0403-0701 Actuarial Clerk  
 0403-0703 Statistical Clerk

**0403-99 OTHER BOOKKEEPING, BANKING AND INSURANCE ACCOUNT RECORDING AND RELATED OCCUPATION**

0403-9901 Scrip Clerk, Stockbroking  
 0403-9903 Invoice Clerk  
 0403-9999 Other Bookkeeping, Banking and Insurance Account Recording and Others, nec

**0405 OFFICE BUSINESS MACHINE AND ELECTRONIC DATA PROCESSING EQUIPMENT OPERATORS****0405-01 OFFICE BUSINESS MACHINE OPERATORS**

0405-0101 Accounting Machinist  
 0405-0103 Calculator Operator  
 0405-0199 Office Business Machine Operators, nec

**0405-03 ELECTRONIC DATA PROCESSING EQUIPMENT OPERATORS**

0405-0301 Computer Operator  
 0405-0303 Computer Peripheral Equipment Operator  
 0405-0305 Remote Computer Terminal Operator  
 0405-0307 Key Punch Operator  
 0405-0309 Automatic Data-Transceiver Operator  
 0405-0311 Keyboard Operator/Assembler  
 0405-0399 Electronic Data Processing Equipment Operators, nec

**0407 SCHEDULING, DISPATCHING AND MATERIAL RECORDING OCCUPATIONS****0407-01 PRODUCTION AND SCHEDULING CLERKS**

0407-0101 Production/Scheduling Clerk

**0407-03 SHIPPING, TRANSPORT, RECEIVING AND STORES CLERKS**

0407-0301 Import Freight Clerk  
 0407-0303 Export Freight Clerk  
 0407-0305 Shipping Clerk  
 0407-0307 Receiving Clerk  
 0407-0309 Roster Clerk  
 0407-0311 Trucks Clerk  
 0407-0313 Wharf Clerk  
 0407-0315 Freight Clerk  
 0407-0317 Dispatcher, Radio  
 0407-0319 Load Controller, Air Transport  
 0407-0321 Inspector, Bus/Tram  
 0407-0323 Train Controller  
 0407-0325 Storeman/woman  
 0407-0399 Shipping, Transport, Receiving and Stores Clerks, nec

**0407-05 STOCK CLERKS AND RELATED OCCUPATIONS**

0407-0501 Stores Clerk  
 0407-0503 Purchasing Clerk  
 0407-0505 Warranty Clerk  
 0407-0507 Tally Clerk  
 0407-0599 Stock Clerks and Related Occupations, nec

**0407-07 WEIGHERS**

0407-0701 Licensed Weigher  
 0407-0703 Weigher, Production  
 0407-0705 Weigher, Drug and Toilet Goods  
 0407-0799 Weighers, nec

**0409 LIBRARY, FILE, CORRESPONDENCE CLERKS AND RELATED OCCUPATIONS****0409-01 LIBRARY AND FILE CLERKS**

0409-0101 Library Attendant  
 0409-0103 File and Classification Clerk  
 0409-0105 Tape Librarian  
 0409-0107 File Clerk

**0409-03 CORRESPONDENCE CLERKS AND RELATED OCCUPATIONS**

0409-0301 Circulation Representative  
 0409-0303 Meter Records Clerk  
 0409-0305 Correspondence Clerk  
 0409-0307 Sales Clerk  
 0409-0309 Sorter (Clerical)  
 0409-0399 Correspondence Clerks and Related Occupations, nec

**0411 RECEPTION, INFORMATION, MAIL AND MESSAGE DISTRIBUTION OCCUPATIONS****0411-01 RECEPTIONISTS AND INFORMATION CLERKS**

0411-0101 Receptionist  
 0411-0103 Information Clerk  
 0411-0105 Hospital Admitting Clerk

**0411-03 POSTAL SERVICE OCCUPATIONS**

0411-0301 Postal Clerk  
 0411-0303 Mail Officer  
 0411-0305 Postal Officer  
 0411-0307 Postman/woman

**0411-05 TELEPHONISTS AND PHONOGRAPH OPERATORS**

0411-0501 Telephonist, Telecommunications  
 0411-0503 Telephonist, Switchboard  
 0411-0505 Telephone Answering-Service Operator  
 0411-0507 Phonogram Operator

**0411-07 MESSENGERS**

0411-0701 Messenger

**0499 OTHER CLERICAL AND RELATED OCCUPATIONS****0499-01 COLLECTION CLERKS**

0499-0101 Debt Collector  
 0499-0103 Collection Clerk  
 0499-0105 Collector, Parking Meter

**0499-03 TEACHERS AIDES**

0499-0301 Teacher s Aide

**0499-05 PERSONNEL CLERKS**

0499-0501 Personnel Records Clerk  
 0499-0503 Work Study Officer  
 0499-0505 Employment Officer

**0499-07 CLERICAL ASSISTANTS**

0499-0701 Clerical Assistant

**0499-09 LEGAL AND RELATED CLERICAL OCCUPATIONS**

0499-0901 Sheriff  
 0499-0903 Bailiff  
 0499-0905 Judge s Associate  
 0499-0907 Law Clerk  
 0499-0909 Clerk of Court  
 0499-0911 Title Searcher  
 0499-0913 Process Server

**0499-99 OTHER CLERICAL AND RELATED OCCUPATIONS**

0499-9901 General Clerk  
 0499-9903 Meter Reader  
 0499-9905 Blueprint Machine Operator  
 0499-9907 Embossing Machine Operator  
 0499-9909 Envelope Sealing and Imprinting Tender  
 0499-9911 Proof-Reader  
 0499-9913 Classified Advertising Clerk  
 0499-9915 Bookmaker  
 0499-9917 Bookmaker s Clerk  
 0499-9919 Property Supervisor (Performing Arts)  
 0499-9921 Tracer  
 0499-9999 Other Clerical and Related Occupations, nec

**05 SALES OCCUPATIONS****0501 INVESTMENT, INSURANCE AND REAL ESTATE OCCUPATIONS****0501-01 SECURITIES AND FINANCE DEALERS**

0501-0101 Corporate Finance Officer  
 0501-0103 Investment Adviser/Dealer  
 0501-0105 Securities Dealer

**0501-03 INSURANCE BROKERS AND AGENTS**

0501-0301 Insurance Broker  
 0501-0303 Insurance Inspector (Fire and General Insurance)  
 0501-0305 Life Assurance Representative

**0501-05 REAL ESTATE AGENTS AND MANAGERS**

0501-0501 Real Estate Agent  
 0501-0503 Property Manager (Real Estate)  
 0501-0505 Valuer (Real Estate)

**0501-99 OTHER INVESTMENT, INSURANCE AND REAL ESTATE OCCUPATIONS**

0501-9901 Dealer, Money Market  
 0501-9903 Grain Broker  
 0501-9905 Trading Floor Operator (Stockbroking)  
 0501-9907 Valuer (General)

**0503 SALES REPRESENTATIVES****0503-01 SCIENTIFIC SALES REPRESENTATIVES**

0503-0101 Sales Representative (Chemical Products)  
 0503-0103 Sales Representative (EDP)  
 0503-0105 Sales Representative (Medical and Dental Equipment and Supplies)

**0503-03 TECHNICAL SALES REPRESENTATIVES**

0503-0301 Sales Representative (Electronic Equipment, Except EDP)  
 0503-0303 Sales Representative (Industrial Machinery and Equipment)  
 0503-0305 Sales Representative (Machinery/Equipment)

**0503-05 SALES REPRESENTATIVES AND AGENTS (SERVICES)**

0503-0501 Sales Representative (Advertising)  
 0503-0503 Sales Representative (Business Services)  
 0503-0505 Sales Representative (Freight Services)  
 0503-0507 Sales Representative (Printing)  
 0503-0599 Sales Representatives and Agents (Services), nec

**0503-07 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS)**

0503-0701 Manufacturer's Agent  
 0503-0703 Sales Representative (Books/Paper Products)  
 0503-0705 Sales Representative (Builders Hardware/Timber)  
 0503-0707 Sales Representative (Farm Properties/Supplies)  
 0503-0709 Sales Representative (Floor Coverings/Furniture)  
 0503-0711 Sales Representative (Food/Drink/Tobacco Products)  
 0503-0713 Sales Representative (Household Goods/Domestic Hardware)  
 0503-0715 Sales Representative (Jewellery/Watches)  
 0503-0717 Sales Representative (Minerals/Metals)  
 0503-0719 Sales Representative (Motor Vehicles/Cycles/Caravans/Boats/Petrol and Tyres)

0503-0721 Sales Representative (Musical Goods)  
 0503-0723 Sales Representative (Pharmaceuticals/Toiletries)  
 0503-0725 Sales Representative (Photographic Equipment/Supplies)  
 0503-0727 Sales Representative (Textiles/Clothing/Footwear)  
 0503-0729 Sales Representative (Toys/Sporting Goods)

**0505 SALESPERSONS AND RELATED OCCUPATIONS****0505-01 SALES ASSISTANTS (SALESPERSONS)**

0505-0101 Salesperson (Domestic Hardware)  
 0505-0103 Salesperson (Fabrics, Clothing/Footwear)  
 0505-0105 Salesperson (Food/Drink Products)  
 0505-0107 Salesperson (Furniture/Floor Coverings)  
 0505-0109 Salesperson (Household Appliances/Radio/Television)  
 0505-0111 Salesperson (Motor Vehicles/Boats/Caravans/Motor Cycles)  
 0505-0113 Salesperson (Musical Equipment/Goods)  
 0505-0115 Salesperson (Newspaper/Books/Stationery)  
 0505-0117 Salesperson (Pharmaceutical Products/Toiletries)  
 0505-0119 Salesperson (Photographic Equipment/Supplies)  
 0505-0121 Salesperson (Plants/Seeds/Gardening Supplies)  
 0505-0123 Salesperson (Tyres/Vehicle Accessories)  
 0505-0125 Salesperson (Sports Equipment/Toys)  
 0505-0127 Salesperson (Watches/Jewellery)

**0505-03 STREET VENDORS, CANVASSERS AND SALES DRIVERS**

0505-0301 Buyer (Scrap)  
 0505-0303 News Vendor  
 0505-0305 Representative (Metal Merchant)  
 0505-0307 Salesperson (Cash Van Sales)  
 0505-0309 Salesperson (Door-to-Door)  
 0505-0311 Street Vendor  
 0505-0313 Supervisor (Cash Van Sales)  
 0505-0315 Sales Supervisor (Door-to-Door Sales)  
 0505-0317 Sales Supervisor (Newspaper Sales)

**0505-05 DRIVEWAY ATTENDANTS AND CHECKOUT OPERATORS**

0505-0501 Service Station Attendant  
 0505-0503 Check-out Operator  
 0505-0505 Drive-in Attendant (Theatre)  
 0505-0507 Drive-in Attendant (Food)

**0505-99 OTHER SALESPERSONS AND RELATED OCCUPATIONS**

0505-9901 Auctioneer  
 0505-9903 Auction Room Attendant  
 0505-9905 Demonstrator (Sales)  
 0505-9907 Pawnbroker  
 0505-9909 Rental Salesperson  
 0505-9911 Salesperson (Services, General)  
 0505-9913 Conductor (Bus/Tram)  
 0505-9915 Ticket Salesperson  
 0505-9917 Travel Agent  
 0505-9999 Other Salespersons and Related Occupations, nec

<b>06</b>	<b>SERVICE OCCUPATIONS</b>	<b>0603</b>	<b>FOOD AND BEVERAGE PREPARATION AND SERVICE OCCUPATIONS</b>
<b>0601</b>	<b>PROTECTIVE AND INVESTIGATIVE SERVICE OCCUPATIONS</b>		
<b>0601-01</b>	<b>POLICE OFFICERS</b>	<b>0603-01</b>	<b>OTHER COOKS</b>
0601-0101	Police Officer, General Duties	0603-0101	Cook, Domestic
0601-0103	Detective	0603-0103	Cook, Fast Food
0601-0105	Police Officer, Protective Service	0603-0105	Short Order Cook
0601-0107	Police Officer, Scientific Branch	0603-0199	Other Cooks, nec
0601-0199	Police Officers, nec		
<b>0601-03</b>	<b>FIRE FIGHTERS</b>	<b>0603-03</b>	<b>FOOD AND BEVERAGE SERVICE OCCUPATIONS</b>
0601-0301	Airport Fire-Fighter	0603-0301	Bar Attendant
0601-0303	Fire-Fighter (General)	0603-0303	Wine Waiter/Waitress
		0603-0305	Host/Hostess
		0603-0307	Waiter/Waitress, General
<b>0601-05</b>	<b>PRISON OFFICERS</b>	<b>0605</b>	<b>ACCOMMODATION SERVICE OCCUPATIONS</b>
0601-0501	Prison Officer		
<b>0601-07</b>	<b>INVESTIGATORY OCCUPATIONS</b>	<b>0605-01</b>	<b>ACCOMMODATION SERVICE OCCUPATIONS</b>
0601-0701	Railway Investigator	0605-0101	Manager, Lodging Establishment
0601-0703	Inquiry Agent	0605-0103	Park Manager, Caravan
0601-0799	Investigatory Occupations, nec	0605-0105	Recreation Camp Warden
		0605-0107	Caretaker
		0605-0109	Housekeeper
<b>0601-09</b>	<b>INSPECTORS AND REGULATORY OFFICERS</b>	<b>0607</b>	<b>PERSONAL SERVICE OCCUPATIONS</b>
0601-0901	Customs Investigator		
0601-0903	Safety Inspector	<b>0607-01</b>	<b>BEAUTICIANS AND RELATED OCCUPATIONS</b>
0601-0905	Primary Products Inspector, Animals	0607-0101	Beautician
0601-0907	Sugar Cane Inspector	0607-0103	Electrologist
0601-0909	Primary Products Inspector, Plants		
0601-0911	Health Inspector	<b>0607-03</b>	<b>MASSAGE OCCUPATIONS</b>
0601-0913	Wildlife Officer	0607-0301	Masseur/Masseuse
0601-0915	Fisheries Inspector		
0601-0917	Arbitration Inspector	<b>0607-99</b>	<b>OTHER PERSONAL SERVICE OCCUPATIONS</b>
0601-0919	Stream Control Officer	0607-9901	Prostitute
0601-0921	Boring Inspector/Supervisor	0607-9999	Personal Service Occupations, nec
0601-0923	Safety Officer		
0601-0925	Area/Territory Supervisor, Service Stations	<b>0609</b>	<b>HEALTH AND WELFARE SERVICE OCCUPATIONS</b>
0601-0927	Accident Prevention Officer, Insurance		
0601-0929	Traffic Inspector	<b>0609-01</b>	<b>CHILD CARE AND RELATED OCCUPATIONS</b>
0601-0931	Travel Accommodation Inspector	0609-0101	Pre-School Aide, Non-Certificated
0601-0933	Fire Safety Inspector	0609-0103	Child Care Group Worker
0601-0935	Inspector, Humane Society	0609-0105	Creche Attendant
0601-0937	Patrolman/woman, Utilities	0609-0107	Hostel Parent
0601-0939	Train Examiner	0609-0199	Other Child Care and Related Occupations
0601-0941	Field Manager, Postal Services		
0601-0999	Inspectors and Regulatory Officers, nec	<b>0609-03</b>	<b>ENROLLED NURSES</b>
		0609-0301	Mothercraft Nurse
<b>0601-11</b>	<b>GUARDS AND RELATED SECURITY OCCUPATIONS</b>	0609-0399	Enrolled Nurses, nec
0601-1101	Railway Patrol Officer		
0601-1103	Armoured Car Driver/Escort	<b>0609-05</b>	<b>OTHER HEALTH ASSISTANTS</b>
0601-1105	Security Officer	0609-0501	Ambulance Officer
0601-1107	Front-of-House Security Officer	0609-0503	Chiropractic Aide
0601-1109	Security Officer, Airport Pre-Boarding	0609-0505	Dental Nurse
0601-1111	Guard, Railway	0609-0507	Ward Helper
0601-1113	Security Officer, Mobile	0609-0509	Wardsman/maid
0601-1115	Security Officer, Retail	0609-0599	Other Health Assistants, nec
0601-1199	Guards and Related Security Occupations, nec		
<b>0601-99</b>	<b>OTHER INVESTIGATORY AND PROTECTIVE OCCUPATIONS</b>		
0601-9901	Aboriginal Police Aide		
0601-9903	Police Cadet		

**0611 OTHER SERVICE OCCUPATIONS****0611-01 FUNERAL DIRECTING AND RELATED OCCUPATIONS**

- 0611-0101 Funeral Director
- 0611-0103 Embalmer
- 0611-0105 Funeral Director's Assistant

**0611-03 GUIDE OCCUPATIONS**

- 0611-0301 Tourist Guide
- 0611-0303 Tour Leader
- 0611-0305 Guide, Establishment

**0611-05 FRONT OF HOUSE OCCUPATIONS**

- 0611-0501 Door Attendant
- 0611-0503 Usher/Usherette, Entertainment
- 0611-0505 Attendant, Sporting
- 0611-0507 Ticket Taker

**0611-07 FLIGHT ATTENDANTS AND RELATED OCCUPATIONS**

- 0611-0701 Flight Service Director
- 0611-0703 Flight Attendant
- 0611-0705 Ground Agent

**0611-09 MARINE AND RAIL STEWARD/STEWARDESS OCCUPATIONS**

- 0611-0901 Marine Steward/Stewardess
- 0611-0903 Railway Conductor, Sleeping Car

**0611-99 OTHER SERVICE AND RELATED OCCUPATIONS**

- 0611-9901 Introductory Consultant
- 0611-9903 Lift Operator
- 0611-9905 Car Park Attendant
- 0611-9907 Pest Control Operator
- 0611-9909 Interpreter
- 0611-9911 Court Orderly
- 0611-9913 Beauty Clinic Assistant
- 0611-9915 Croupier
- 0611-9917 Lampman/woman
- 0611-9919 Manager, Sport Centre
- 0611-9999 Other Service and Related Occupations, nec

**07 TRADES AND OTHER SKILLED OCCUPATIONS (EXCEPT AGRICULTURE)****0701 METAL TRADESPERSONS AND APPRENTICES****0701-01 METAL CASTING TRADESPERSONS**

- 0701-0101 Patternmaker, Metal Casting
- 0701-0103 Jobbing Moulder-Coremaker

**0701-03 METAL FINISHING TRADESPERSONS**

- 0701-0301 Electroplater, First Class
- 0701-0303 Metal Polisher, First Class
- 0701-0305 Electroformer

**0701-05 TOOLMAKERS**

- 0701-0501 Tool Designer
- 0701-0503 Toolmaker

**0701-07 FITTERS AND MACHINISTS**

- 0701-0701 Machinist, First Class
- 0701-0703 Fitter-Machinist
- 0701-0705 Maintenance Fitter
- 0701-0707 Fitter

**0701-09 MACHINE SETTERS, PLASTIC PRODUCTS**

- 0701-0901 Extruding Machine Setter (Plastics)
- 0701-0903 Injection/Compression/Transfer Moulding Machine Setter
- 0701-0905 Blow Moulding Machine Setter
- 0701-0907 Cellular Plastics Machine Setter
- 0701-0909 Thermoforming Machine Setter
- 0701-0911 Rotational Moulding Machine Setter

**0701-11 TEXTILE MECHANICS, YARN AND FABRIC**

- 0701-1101 Textile Mechanic, Spinning
- 0701-1103 Textile Mechanic, Weaving
- 0701-1105 Textile Mechanic, Knitting
- 0701-1107 Textile Mechanic, Tufting

**0701-13 FORGING TRADESPERSONS**

- 0701-1301 Blacksmith
- 0701-1303 Master Farrier (Apprenticed)
- 0701-1305 Forging Smith

**0701-15 SHEET METAL TRADESPERSONS**

- 0701-1501 Patternmaker, Sheet and Structural Metal
- 0701-1503 Sheet Metal Worker, First Class
- 0701-1505 Coppersmith

**0701-17 STRUCTURAL STEEL, BOILERMAKING AND WELDING TRADESPERSONS**

- 0701-1701 Pressure Welder
- 0701-1703 Metal Fabricator
- 0701-1705 Structural Steel Tradesperson
- 0701-1799 Welding Tradespersons, nec

**0701-19 METAL SPINNERS**

- 0701-1901 Metal Spinner

**0701-21 AIRCRAFT GROUND ENGINEERS**

- 0701-2101 Aircraft Ground Engineer, Engines
- 0701-2103 Aircraft Ground Engineer, Airframes
- 0701-2105 Aircraft Engineer, Line Maintenance

<b>0701-23</b>	<b>OTHER PRECISION METAL TRADESPERSONS</b>	<b>0703</b>	<b>ELECTRICAL AND ELECTRONICS TRADESPERSONS AND APPRENTICES</b>
0701-2301	Precision Instrument Maker and Repairer		
0701-2303	Office Mechanical Equipment Serviceman/woman	<b>0703-01</b>	<b>ELECTRICAL POWERLINE INSTALLATION AND MAINTENANCE TRADESPERSONS</b>
0701-2305	Watch and Clock Repairer		
0701-2307	Locksmith	0703-0101	Power Linesman/woman
0701-2309	Saw Maker and Repairer	0703-0103	Cable Joiner
<b>0701-25</b>	<b>INSPECTORS, METAL TRADES</b>	<b>0703-03</b>	<b>ELECTRICAL FITTERS</b>
0701-2501	Pressure Weld Inspector	0703-0301	Electrical Fitter, Production/Installation
0701-2503	Quality Control Inspector, Metal Processing, Machining, Shaping and Forming	0703-0303	Electrical Fitter, Maintenance
0701-2505	Aircraft Inspector	0703-0305	Coil Winder, Heavy Duty
		0703-0307	Electrical Equipment Servicer
<b>0701-27</b>	<b>APPRENTICES, METAL CASTING</b>	<b>0703-05</b>	<b>AUTOMOTIVE ELECTRICIANS</b>
0701-2701	Apprentice Jobbing Moulder-Coremaker	0703-0501	Automotive Electrician
0701-2703	Apprentice Patternmaker, Metal Casting		
<b>0701-29</b>	<b>APPRENTICES, METAL FINISHING</b>	<b>0703-07</b>	<b>REFRIGERATION AND AIR-CONDITIONING MECHANICS</b>
0701-2901	Apprentice Electroplater	0703-0701	Refrigeration Mechanic
0701-2903	Apprentice Metal Polisher	0703-0703	Air-Conditioning Mechanic
<b>0701-31</b>	<b>APPRENTICES, METAL MACHINING</b>	<b>0703-09</b>	<b>ELECTRICAL MECHANICS</b>
0701-3101	Apprentice Fitter-Machinist	0703-0901	Electrical Mechanic
0701-3103	Apprentice Toolmaker	0703-0903	Aircraft Electrical Mechanic
<b>0701-33</b>	<b>APPRENTICES, AIRCRAFT GROUND ENGINEERING</b>	<b>0703-11</b>	<b>COMMUNICATIONS EQUIPMENT TRADESPERSONS</b>
0701-3301	Apprentice Aircraft Ground Engineer, Engines	0703-1101	Telecommunication Tradesperson
0701-3303	Apprentice Aircraft Ground Engineer, Airframes	0703-1103	Broadcasting Tradesperson
<b>0701-35</b>	<b>APPRENTICES, FORGING</b>	<b>0703-13</b>	<b>RADIO AND TELEVISION SERVICING OCCUPATIONS</b>
0701-3501	Apprentice Blacksmith	0703-1301	Radio and Television Tradesperson
0701-3503	Apprentice Farrier		
<b>0701-37</b>	<b>APPRENTICES, SHEET METAL TRADES</b>	<b>0703-15</b>	<b>OTHER ELECTRICAL AND ELECTRONIC TRADESPERSONS</b>
0701-3701	Apprentice Sheet Metal Worker	0703-1501	Electrician, Special Class
0701-3703	Apprentice Coppersmith	0703-1503	Lift Mechanic
<b>0701-39</b>	<b>APPRENTICES, STRUCTURAL STEEL, BOILERMAKING AND WELDING TRADES</b>	0703-1505	Control Equipment Tradesperson
0701-3901	Apprentice Welder	0703-1507	Computer Serviceman/woman
0701-3903	Apprentice Metal Fabricator	0703-1599	Other Electrical and Electronic Tradespersons, nec
0701-3905	Apprentice Structural Steel Tradesperson		
<b>0701-41</b>	<b>APPRENTICE METAL SPINNERS</b>	<b>0703-17</b>	<b>APPRENTICE POWER LINESMEN/WOMEN</b>
0701-4101	Apprentice Metal Spinner	0703-1701	Apprentice Power Linesman/woman
<b>0701-43</b>	<b>APPRENTICE TEXTILE MECHANICS</b>	<b>0703-19</b>	<b>APPRENTICE ELECTRICAL FITTERS</b>
0701-4301	Apprentice Textile Mechanic, Spinning	0703-1901	Apprentice Electrical Fitter
0701-4303	Apprentice Textile Mechanic, Weaving		
0701-4305	Apprentice Textile Mechanic, Knitting	<b>0703-21</b>	<b>APPRENTICE ELECTRICAL MECHANICS</b>
0701-4307	Apprentice Textile Mechanic, Tufting	0703-2101	Apprentice Electrical Mechanic
		0703-2103	Apprentice Aircraft Mechanic (Electrical)
<b>0701-45</b>	<b>OTHER APPRENTICES PRECISION METAL TRADES</b>	<b>0703-23</b>	<b>APPRENTICE AUTOMOTIVE ELECTRICIANS</b>
0701-4501	Apprentice Precision Instrument Maker	0703-2301	Apprentice Automotive Electrician
0701-4503	Apprentice Office Mechanical Equipment Serviceman/woman		
0701-4505	Apprentice Watch and Clock Repairer	<b>0703-25</b>	<b>APPRENTICE REFRIGERATION MECHANICS</b>
0701-4507	Apprentice Locksmith	0703-2501	Apprentice Refrigeration Mechanic/Fitter
0701-4509	Apprentice Saw Maker and Repairer		

**0703-27 APPRENTICES, TELECOMMUNICATIONS OCCUPATIONS**

0703-2701 Trainee Telecommunication Tradesman/woman  
 0703-2703 Trainee Lineman/woman, Telecommunication  
 0703-2799 Trainee Telecommunications Occupations, nec

**0703-29 APPRENTICES, RADIO AND TELEVISION SERVICING**

0703-2901 Apprentice Radio and Television Mechanic

**0705 BUILDING TRADESPERSONS AND APPRENTICES****0705-01 CARPENTERS AND JOINERS**

0705-0101 Carpenter and Joiner  
 0705-0103 Fixing Carpenter  
 0705-0105 Roof Carpenter and Framer  
 0705-0107 Joiner, Detailed  
 0705-0109 Joiner, Standard  
 0705-0111 Setter Out  
 0705-0113 Prop Maker

**0705-03 BRICKLAYERS**

0705-0301 Bricklayer  
 0705-0303 Refractory Bricklayer

**0705-05 PAINTERS, DECORATORS AND SIGNWRITERS**

0705-0501 Painter and Decorator  
 0705-0503 Paperhanger  
 0705-0505 Painter, Industrial  
 0705-0507 Signwriter

**0705-07 PLASTERERS**

0705-0701 Plasterer, Solid  
 0705-0703 Plasterer, Fibrous

**0705-09 PLUMBING TRADESPERSONS**

0705-0901 Plumber  
 0705-0903 Gasfitter  
 0705-0905 Drainer  
 0705-0907 Pipe Fitter (Plumbing)

**0705-11 ROOF SLATERS AND TILERS**

0705-1101 Roof Slater and Tiler

**0705-13 WALL AND FLOOR TILERS**

0705-1301 Tile Layer, Wall and Floor

**0705-15 STONEMASONS**

0705-1501 Stonemason

**0705-17 APPRENTICE CARPENTERS AND JOINERS**

0705-1701 Apprentice Carpenter and Joiner  
 0705-1703 Apprentice Joiner

**0705-19 APPRENTICE BRICKLAYERS**

0705-1901 Apprentice Bricklayer

**0705-21 APPRENTICE PAINTERS AND DECORATORS**

0705-2101 Apprentice Painter and Decorator  
 0705-2103 Apprentice Signwriter

**0705-23 APPRENTICE PLASTERERS**

0705-2301 Apprentice Plasterer

**0705-25 APPRENTICE PLUMBERS**

0705-2501 Apprentice Plumber

**0705-27 APPRENTICE ROOF SLATERS AND TILERS**

0705-2701 Apprentice Roof Slater and Tiler

**0705-29 APPRENTICE WALL AND FLOOR TILERS**

0705-2901 Apprentice Wall and Floor Tile Layer

**0705-31 APPRENTICE STONEMASONS**

0705-3101 Apprentice Stonemason

**0707 PRINTING TRADESPERSONS AND APPRENTICES****0707-01 COMPOSITORS**

0707-0101 Compositor

**0707-03 GRAPHIC REPRODUCTION TRADESPERSONS**

0707-0301 Image Preparer  
 0707-0303 Plate Preparer  
 0707-0305 Cylinder Preparer  
 0707-0307 Photopolymer Plate Preparer

**0707-05 LETTERPRESS PRINTING OCCUPATIONS**

0707-0501 Letterpress Printing Machinist

**0707-07 OFFSET LITHOGRAPHIC PRINTING OCCUPATIONS**

0707-0701 Lithographic Printing Machinist

**0707-09 FLEXOGRAPHIC AND/OR GRAVURE PRINTING OCCUPATIONS**

0707-0901 Flexographic and/or Gravure Printing Machinist

**0707-11 BINDING AND FINISHING OCCUPATIONS**

0707-1101 Bookbinder  
 0707-1103 Guillotine Operator, Bookbinding

**0707-13 STEREOTYPERS AND/OR ELECTROTYPERS**

0707-1301 Stereotyper and/or Electrotyper

**0707-15 SCREEN PRINTERS**

0707-1501 Screen Printing Stencil Preparer

**0707-17 APPRENTICES, COMPOSITION AND GRAPHIC REPRODUCTION**

0707-1701 Apprentice Compositor  
 0707-1703 Apprentice Graphic Reproducer

**0707-19 APPRENTICE PRINTING MACHINISTS**

0707-1901 Apprentice Printing Machinist

**0707-21 APPRENTICES, BINDING AND FINISHING**

0707-2101 Apprentice Binder and Finisher

**0707-23 APPRENTICES, STEREOTYPING AND ELECTROTYPING**

0707-2301 Apprentice Stereotyper and/or Electrotyper

**0707-25 APPRENTICES, SCREEN PRINTING**

0707-2501 Apprentice Screen Printing Stencil Preparer

**0707-99 PRINTING TRADES OCCUPATIONS, NEC**

0707-9901 Linotype Mechanic

**0709 VEHICLE TRADESPERSONS AND APPRENTICES****0709-01 VEHICLE MECHANICS**

- 0709-0101 Motor Mechanic
- 0709-0103 Diesel Motor Mechanic
- 0709-0105 Brake Mechanic

**0709-03 PANEL BEATERS**

- 0709-0301 Panel Beater

**0709-05 VEHICLE PAINTERS**

- 0709-0501 Vehicle Painter

**0709-07 VEHICLE BODY MAKERS**

- 0709-0701 Body Maker, First Class

**0709-09 OTHER VEHICLE TRADESPERSONS**

- 0709-0901 Vehicle Trimmer
- 0709-0999 Other Vehicle Tradespersons, nec

**0709-11 APPRENTICE VEHICLE MECHANICS**

- 0709-1101 Apprentice Motor Mechanic
- 0709-1103 Apprentice Brake Mechanic

**0709-13 APPRENTICE PANEL BEATERS**

- 0709-1301 Apprentice Panel Beater

**0709-15 APPRENTICE VEHICLE PAINTERS**

- 0709-1501 Apprentice Vehicle Painter

**0709-17 APPRENTICE BODY MAKERS**

- 0709-1701 Apprentice Body Maker

**0709-19 APPRENTICES, OTHER VEHICLE TRADES**

- 0709-1901 Apprentice Vehicle Trimmer

**0711 FOOD TRADESPERSONS AND APPRENTICES****0711-01 CONFECTIONERS**

- 0711-0101 Skilled Confectioner

**0711-03 MEAT TRADES OCCUPATIONS**

- 0711-0301 Retail Butcher
- 0711-0303 Non-Retail Butcher
- 0711-0305 Smallgoods Maker
- 0711-0307 Slaughterman/woman

**0711-05 BAKERS, PASTRYCOOKS AND MILLERS**

- 0711-0501 Pastrycook
- 0711-0503 Baker
- 0711-0505 Grain Miller
- 0711-0507 Stockfeed Miller

**0711-07 DAIRY TRADES OCCUPATIONS**

- 0711-0701 Buttermaker
- 0711-0703 Cheesemaker

**0711-09 QUALIFIED COOKS**

- 0711-0901 Chef, General

**0711-11 WAITERS/WAITRESSES, FORMAL SERVICE**

- 0711-1101 Waiter/Waitress, Formal Service

**0711-13 APPRENTICE CONFECTIONERS**

- 0711-1301 Apprentice Confectioner

**0711-15 APPRENTICES, MEAT TRADES OCCUPATIONS**

- 0711-1501 Apprentice Butcher
- 0711-1503 Apprentice Smallgoods Maker
- 0711-1505 Apprentice Slaughterman/woman

**0711-17 APPRENTICE BAKERS, PASTRYCOOKS AND MILLERS**

- 0711-1701 Apprentice Pastrycook
- 0711-1703 Apprentice Baker
- 0711-1705 Apprentice Cereal Miller

**0711-19 APPRENTICES, DAIRY TRADES OCCUPATIONS**

- 0711-1901 Apprentice Buttermaker
- 0711-1903 Apprentice Cheesemaker

**0711-21 APPRENTICE COOKS**

- 0711-2101 Apprentice Cook

**0711-23 APPRENTICE WAITERS/WAITRESSES**

- 0711-2301 Apprentice Waiter/Waitress

**0713 OTHER TRADESPERSONS AND APPRENTICES****0713-01 OPTICAL INSTRUMENT AND SPECTACLE LENS MACHINISTS**

- 0713-0101 Precision Grinder
- 0713-0103 Ophthalmic Lens Surfer and Fitter

**0713-03 OTHER GLASS TRADESPERSONS**

- 0713-0301 Glazier
- 0713-0303 Beveller
- 0713-0305 Glass Cutter, Skilled
- 0713-0307 Glass Bender
- 0713-0399 Glass Trades Occupations, nec

**0713-05 WOOD PATTERNMAKING OCCUPATIONS**

- 0713-0501 Patternmaker, Wood
- 0713-0503 Model Maker, Wood

**0713-07 WOOD MACHINISTS AND TURNERS, TRADE**

- 0713-0701 A Grade Wood Machinist
- 0713-0703 Woodworking Machine Line Setter
- 0713-0705 Wood Turner

**0713-09 CABINET AND CHAIR MAKERS**

- 0713-0901 Cabinet-Maker
- 0713-0903 Chairmaker

**0713-11 OTHER WOOD TRADE OCCUPATIONS**

- 0713-1101 Wood Carver
- 0713-1103 Picture Framer
- 0713-1105 Cooper
- 0713-1107 Cane Furniture Maker
- 0713-1109 Furniture Finisher
- 0713-1199 Woodworkers, nec

**0713-13 JEWELLERY AND PRECIOUS METALWARE TRADES OCCUPATIONS**

- 0713-1301 Gem Cutter
- 0713-1303 Jewellery Maker and Repairer
- 0713-1305 Gem Setter and Engraver
- 0713-1307 Precious Metal Smith
- 0713-1309 Jewellery and Precious Metalware Finisher

**0713-15 TAILORS**

- 0713-1501 Tailor, Made-to-Measure Garments  
 0713-1503 Tailor, Ready-to-Wear Garments

**0713-17 GARMENT MAKERS, EXCEPT TAILORS**

- 0713-1701 Dressmaker  
 0713-1703 Cutter, Tailors and Dressmakers

**0713-19 UPHOLSTERERS, BEDDING AND MATTRESS MAKERS**

- 0713-1901 Upholsterer, General  
 0713-1903 Cutter, Upholstery  
 0713-1905 Bedding and Mattress Maker

**0713-21 LEATHER AND CANVAS GOODS MAKERS**

- 0713-2101 Leather Worker  
 0713-2103 Canvas Worker  
 0713-2105 Sailmaker

**0713-23 SKILLED SHOEMAKING AND REPAIRING OCCUPATIONS**

- 0713-2301 Laster  
 0713-2303 Shoe Repairer  
 0713-2305 Shoemaker  
 0713-2307 Clicker  
 0713-2309 Machinist, Shoemaking

**0713-25 HAIRDRESSERS**

- 0713-2501 Hairdresser, Ladies  
 0713-2503 Hairdresser, Gentlemen s  
 0713-2505 Hairdresser, Unisex

**0713-27 MARINE CONSTRUCTION TRADESPERSONS**

- 0713-2701 Shipwright  
 0713-2703 Loftsmen/woman (Marine)  
 0713-2705 Boat Builder/Repairer

**0713-29 MUSICAL INSTRUMENT MAKERS AND REPAIRERS**

- 0713-2901 Piano Tuner/Repairer  
 0713-2903 Stringed Musical Instrument Maker/Repairer  
 0713-2999 Musical Instrument Makers and Repairers, nec

**0713-31 AMENITY HORTICULTURAL TRADES OCCUPATIONS**

- 0713-3101 Nursery Man/Woman  
 0713-3103 Gardener, Public Gardens  
 0713-3105 Groundsman/woman  
 0713-3107 Gardener, Private Garden  
 0713-3109 Landscape Gardener

**0713-33 DRY-CLEANERS**

- 0713-3301 Dry-Cleaner

**0713-35 DENTAL TECHNICIANS**

- 0713-3501 Dental Technician

**0713-37 SAW OPERATORS**

- 0713-3701 Head Sawyer  
 0713-3703 Resawyer

**0713-39 CARPET LAYERS**

- 0713-3901 Carpet Layer

**0713-41 APPRENTICES, GLASS PRODUCTS**

- 0713-4101 Apprentice Flat Glass Tradesperson  
 0713-4103 Apprentice Glass Bender  
 0713-4199 Apprentices, Glass Products, nec

**0713-43 APPRENTICE WOOD MACHINISTS, TURNERS AND PATTERNMAKERS**

- 0713-4301 Apprentice Wood Patternmaker  
 0713-4303 Apprentice Wood Machinist  
 0713-4305 Apprentice Wood Turner

**0713-45 APPRENTICES, WOOD PRODUCTS FABRICATING**

- 0713-4501 Apprentice Cabinet-Maker  
 0713-4503 Apprentice Wood Carver  
 0713-4505 Apprentice Picture Framer  
 0713-4507 Apprentice Cooper  
 0713-4509 Apprentice Cane Furniture Maker  
 0713-4511 Apprentice Furniture Finisher

**0713-47 APPRENTICE JEWELLERS**

- 0713-4701 Apprentice Diamond Cutter  
 0713-4703 Apprentice Jewellery Maker and Repairer

**0713-49 APPRENTICES, SILVERWARE FABRICATING**

- 0713-4901 Apprentice Silversmith  
 0713-4903 Apprentice Silverware Polisher

**0713-51 APPRENTICES, GARMENT MAKING, UPHOLSTERING AND SHOEMAKING**

- 0713-5101 Apprentice Tailor  
 0713-5103 Apprentice Upholsterer  
 0713-5105 Apprentice Bedding and Mattress Maker  
 0713-5107 Apprentice Shoemaker

**0713-53 APPRENTICE HAIRDRESSERS**

- 0713-5301 Apprentice Hairdresser, Ladies  
 0713-5303 Apprentice Hairdresser, Gentlemen s

**0713-55 APPRENTICE SHIPWRIGHTS**

- 0713-5501 Apprentice Shipwright

**0713-57 APPRENTICES, AMENITY HORTICULTURE**

- 0713-5701 Apprentice Nursery Man/Woman  
 0713-5703 Apprentice Gardener  
 0713-5705 Apprentice Greenkeeper  
 0713-5707 Apprentice Landscape Gardener

**0713-59 APPRENTICE DENTAL TECHNICIANS**

- 0713-5901 Apprentice Dental Technician

**0713-61 APPRENTICE DRY-CLEANERS**

- 0713-6101 Apprentice Dry-Cleaner

**0713-63 APPRENTICE CARPET LAYERS**

- 0713-6301 Apprentice Carpet Layer

<b>0715</b>	<b>NON-APPRENTICEABLE SKILLED AND TRADE SUPPORT OCCUPATIONS</b>	<b>0715-25</b>	<b>INSPECTORS AND GRADERS, TEXTILES</b>
<b>0715-01</b>	<b>METAL POLISHERS, SECOND CLASS</b>	0715-2501	Leather Grader
0715-0101	Metal Polisher, Second Class	0715-2503	Fur Grader
<b>0715-03</b>	<b>SECOND CLASS MACHINISTS AND MACHINE SETTERS</b>	0715-2505	Hide and Skin Classer
0715-0301	Machinist, Second Class	0715-2507	Wool Classer
0715-0303	Tool and Die Setter	<b>0715-27</b>	<b>TREE ATTENDANTS</b>
<b>0715-05</b>	<b>INSTRUMENT MAKERS AND REPAIRERS, NON-TRADE</b>	0715-2701	Tree Attendant
0715-0501	Gunsmith	<b>0715-29</b>	<b>RIGGERS</b>
0715-0599	Instrument Makers and Repairers, nec	0715-2901	Rigger
<b>0715-07</b>	<b>FARRIERS (NON-APPRENTICED)</b>	<b>0715-31</b>	<b>BLASTING OCCUPATIONS</b>
0715-0701	Farrier (Non-Apprenticed)	0715-3101	Shot Firer (Underground Mining)
<b>0715-09</b>	<b>TELECOMMUNICATION SKILLED OCCUPATIONS</b>	0715-3103	Shot-Firer (Open Cut Mining)
0715-0901	Telecommunication Line Serviceman/woman	0715-3105	Shooter, Seismograph
0715-0903	Assistant Technician (Telecommunication)	0715-3107	Stope Miner
<b>0715-11</b>	<b>SPECIALIST NON-TRADE CONSTRUCTION OCCUPATIONS</b>	<b>0715-33</b>	<b>ASSISTANT PRINTING MACHINISTS (NON-TRADE)</b>
0715-1101	Structural-Steel Erector	0715-3301	Assistant Machinist, Newspaper Press
0715-1103	Scaffolder	0715-3303	Assistant Offset Lithographic Printing Machinist
0715-1105	Concrete Finisher	0715-3305	Printing Machine Operator
0715-1107	Steel Fixer	<b>0715-35</b>	<b>DOGMEN AND CRANE CHASERS</b>
0715-1109	Lagger	0715-3501	Dogman/woman
<b>0715-13</b>	<b>BAKERS AND CONFECTIONERS, NON-TRADES</b>	0715-3503	Crane Chaser
0715-1301	Confectioner's Assistant	<b>0715-37</b>	<b>PERFORMING ARTS SUPPORT OCCUPATIONS</b>
0715-1303	Assistant Pastrycook	0715-3701	Make-up Artist
0715-1305	Assistant Baker	0715-3703	Special Effects Person
0715-1307	Biscuitmaker	0715-3799	Performing Arts Support Occupations, nec
<b>0715-15</b>	<b>GLASS BLOWERS</b>	<b>0715-39</b>	<b>DIVERS AND RELATED OCCUPATIONS</b>
0715-1501	Glass Blower, Molten Tank	0715-3901	Offshore Diver
0715-1503	Scientific Glass Apparatus Blower	0715-3903	Onshore Diver
0715-1505	Glass Blowing Lathe Operator	0715-3905	Saturation Technician
0715-1599	Glass Workers, nec	<b>0715-41</b>	<b>VEHICLE REPAIRERS, NON-TRADE</b>
<b>0715-17</b>	<b>WOOD MACHINISTS AND TURNERS, NON-TRADES</b>	0715-4101	Vehicle Repairer, Non-Trade
0715-1701	B Grade Wood Machinist	<b>0715-43</b>	<b>MOTION PICTURE PROJECTIONISTS</b>
0715-1703	Automatic Wood Turning Lathe Operator	0715-4301	Motion Picture Projectionist
0715-1705	Semi-automatic Wood Turning Lathe Operator	<b>0715-45</b>	<b>TRAINEE GLASS BLOWERS</b>
<b>0715-19</b>	<b>POTTERS AND OTHER CRAFT WORKERS</b>	0715-4501	Trainee Glass Blower, Molten Tank
0715-1901	Potter	<b>0715-47</b>	<b>TRAINEES, TELECOMMUNICATION SKILLED OCCUPATIONS</b>
0715-1999	Craft Occupations, nec	0715-4701	Trainee Lines Serviceman/woman
<b>0715-21</b>	<b>FURRIERS</b>	0715-4703	Telecommunication Lineman/woman's Assistant
0715-2101	Furrier, General	<b>0715-49</b>	<b>SERVICEMEN/WOMEN, ELECTRO-MECHANICAL EQUIPMENT</b>
0715-2103	Fur Cutter	0715-4901	Serviceman/woman, Electro-Mechanical Equipment
<b>0715-23</b>	<b>SKILLED CLOTHING OCCUPATIONS</b>		
0715-2301	Wardrobe Co-ordinator		
0715-2303	Wardrobe Assistant		
0715-2305	Patternmaker/Grader (Textiles)		
0715-2307	Milliner		
0715-2309	Sample Hand, Apparel		

## 08 SKILLED AGRICULTURAL OCCUPATIONS

### 0801 FIELD CROP AND/OR LIVESTOCK PRODUCERS

#### 0801-01 FIELD CROP GROWERS

0801-0101 Cereal Grain and Oilseed Grower  
0801-0103 Sugar Cane Grower  
0801-0105 Tobacco Grower  
0801-0199 Field Crop Growers, nec

#### 0801-03 LIVESTOCK PRODUCERS

0801-0301 Beef Cattle Farmer  
0801-0303 Dairy Farmer  
0801-0305 Sheep Farmer  
0801-0307 Goat Farmer  
0801-0309 Pig Farmer  
0801-0311 Poultry Farmer, Egg Production  
0801-0313 Poultry Farmer, Meat Production  
0801-0315 Horse Breeder  
0801-0317 Mixed Livestock Farmer  
0801-0399 Livestock Producers, nec

#### 0801-05 FARMERS, MIXED PRODUCE

0801-0501 Farmer, Mixed Produce

### 0803 HORTICULTURAL CROP GROWERS

#### 0803-01 HORTICULTURAL CROP GROWERS

0803-0101 Perennial Horticultural Crop Grower  
0803-0103 Vegetable (Annual Horticultural Crop) Grower  
0803-0199 Horticultural Crop Growers, nec

### 0899 OTHER SKILLED AGRICULTURAL OCCUPATIONS

#### 0899-01 ANIMAL (EXCEPT LIVESTOCK) PRODUCERS

0899-0101 Apiarist  
0899-0199 Animal (Except Livestock) Producers, nec

#### 0899-03 APPRENTICE FARMING OCCUPATIONS

0899-0301 Farm Apprentice  
0899-0303 Trainee Farm Manager

#### 0899-05 AGRICULTURAL OVERSEERS

0899-0501 Overseer, Farm  
0899-0503 Overseer, Shearing Shed

#### 0899-07 SHEEP SHEARERS

0899-0701 Shearer

#### 0899-09 ANIMAL HUSBANDRY AND TRAINING OCCUPATIONS

0899-0901 Horse Trainer  
0899-0903 Groom (Horse)  
0899-0905 Horse Breaker  
0899-0999 Animal Husbandry and Training Occupations, nec

### 0899-99 OTHER SKILLED AGRICULTURAL OCCUPATIONS

0899-9901 Artificial Insemination Technician  
0899-9903 Serviceman/woman, Chicken Meat  
0899-9905 Shearing Shed Expert  
0899-9999 Other Skilled Agricultural Occupations, nec

## 09 PLANT OPERATING AND RELATED OCCUPATIONS

### 0901 ROAD AND RAIL TRANSPORT DRIVERS

#### 0901-01 BUS AND TRAM DRIVERS

0901-0101 Bus Driver  
0901-0103 Tram Driver

#### 0901-03 AUTOMOBILE DRIVERS

0901-0301 Chauffeur/Chauffeuse  
0901-0303 Hire Car Driver  
0901-0305 Taxi Driver  
0901-0307 Courier, Road Transport

#### 0901-05 TRUCK DRIVERS

0901-0501 Truck Driver, Light  
0901-0503 Truck Driver, Heavy  
0901-0505 Truck Driver, Articulated  
0901-0507 Furniture Removalist/Driver  
0901-0509 Haul Truck Operator

#### 0901-07 LOCOMOTIVE ENGINEMEN/WOMEN

0901-0701 Locomotive Engineman/woman

#### 0901-09 OTHER LOCOMOTIVE DRIVERS

0901-0901 Locomotive Assistant  
0901-0903 Locomotive Driver, Underground Mine

### 0903 OTHER MOBILE EQUIPMENT OPERATORS

#### 0903-01 EXCAVATING AND EARTHMOVING EQUIPMENT OPERATORS

0903-0101 Shovel Operator  
0903-0103 Grader Operator  
0903-0105 Bulldozer Operator  
0903-0107 Scraper Operator (Earthmoving)  
0903-0109 Dragline Operator, Open Cut Mining  
0903-0111 Back-Hoe Operator  
0903-0113 Trench-Digging Machine Operator  
0903-0115 Front-End Loader Operator  
0903-0117 Diesel Loader Operator  
0903-0119 Continuous Miner Driver, Underground Coal Mine  
0903-0121 Mechanical Bogger Driver  
0903-0123 Bucketwheel-Excavator Operator  
0903-0125 Longwall Miner Operator, Underground Coal Mine  
0903-0127 Dredge Operator  
0903-0129 Underground Truck Driver  
0903-0131 Shuttle Car Driver, Underground Coal Mine

<b>0903-03</b>	<b>FORKLIFT DRIVERS AND RELATED OCCUPATIONS</b>
0903-0301	Fork Lift Driver
0903-0303	Straddle Carrier Operator
0903-0399	Fork Lift Drivers and Related Occupations, nec
<b>0903-05</b>	<b>LOGGING PLANT OPERATORS</b>
0903-0501	Plant Operator, Felling and Processing
0903-0503	Skidder Operator
0903-0505	Forwarder Operator
0903-0507	Log Loading Machine Operator
<b>0903-07</b>	<b>PAVING AND SURFACING EQUIPMENT OPERATORS</b>
0903-0701	Paving Machine Operator
0903-0703	Road Roller Operator
0903-0799	Paving and Surfacing Equipment Operators, nec
<b>0903-09</b>	<b>FARM MACHINERY OPERATORS</b>
0903-0901	Farm Machinery Operator
0903-0903	Operator, Amenity Horticulture Machinery
<b>0903-11</b>	<b>TRAINEES MOBILE PLANT OPERATORS</b>
0903-1101	Shovel Greaser
0903-1103	Dragline Oiler
0903-1199	Trainees Mobile Plant Operators, nec
<b>0903-99</b>	<b>OTHER MOBILE EQUIPMENT OPERATORS</b>
0903-9901	Track Repair Machine Operator
0903-9903	Shunter, Railway
0903-9999	Other Mobile Equipment Operators, nec
<b>0905</b>	<b>CONTINUOUS PLANT OPERATORS</b>
<b>0905-01</b>	<b>WATER SUPPLY EQUIPMENT OPERATORS</b>
0905-0101	Storage Supervisor (Water Supply)
0905-0103	Water Officer
0905-0105	Water Service Operator
<b>0905-03</b>	<b>ELECTRICAL GENERATING EQUIPMENT OPERATORS</b>
0905-0301	Power Plant Controller
0905-0303	Power Plant Unit Operator
0905-0305	Hydro-Electric Station Operator
0905-0307	Distribution Switching Operator
<b>0905-05</b>	<b>OTHER ENGINE AND BOILER OPERATORS</b>
0905-0501	Engine Driver (Except Transport)
0905-0503	Marine Engine Driver
0905-0505	Refrigeration Operator
0905-0507	Air-Conditioning Operator
0905-0509	Boiler Attendant
0905-0511	Timber Treatment Plant Operator
0905-0513	Timber Immunising Plant Operator
<b>0905-07</b>	<b>PLANT OPERATORS, CHEMICAL PRODUCTS</b>
0905-0701	Acetylene Plant Operator
0905-0703	Dry Ice Maker
0905-0705	Liquid Gas Plant Operator

<b>0905-09</b>	<b>PLANT OPERATORS, PETROLEUM PRODUCTS</b>
0905-0901	Plant Operator, Petroleum Process Units
0905-0903	Plant Operator, Grease Manufacture
<b>0905-11</b>	<b>OTHER CONTROL ROOM OPERATORS</b>
0905-1101	Deputy Dredge Master/Mistress (Sand Mining)
0905-1103	Central Control Room Operator, Ore Processing
0905-1105	Crusher Control Room Operator (Primary)
0905-1107	Control Room Operator, Coal Preparation Plant
0905-1109	Head Sawyer, Sawmill (Remote Control)
0905-1111	Resaw Operator (Remote Control)
0905-1113	Edgerman/woman (Remote Control)
0905-1115	Control Room Operator, Bulk Materials and Fluids Handling
0905-1117	Rolling Attendant, Iron and Steel
0905-1119	Grinder Operator (Paper Pulp Preparation)
0905-1121	Continuous Digester Operator (Paper Pulp Preparation)
0905-1123	Screener Operator (Paper Pulp Preparation)
0905-1125	Bleacher Operator (Paper Pulp Preparation)
0905-1127	Beater Operator (Paper Pulp Preparation)
0905-1129	Pulp Dryer Operator (Papermaking)
0905-1131	Signalman/woman, Railway
0905-1133	Water Treatment Plant Operator
0905-1135	Waste Water Treatment Plant Operator
0905-1199	Control Room Operators, nec
<b>0905-13</b>	<b>ASSISTANTS, CONTINUOUS PLANT OPERATING</b>
0905-1301	Assistant Boiler Attendant
0905-1303	Assistant Plant Operator, Petroleum Process Units
0905-1305	Assistant Plant Operator, Grease Manufacture
0905-1307	Assistant Waste Water Treatment Plant Operator
0905-1309	Auxiliary Plant Attendant
0905-1311	Marine Greaser
0905-1313	Marine Donkeyman/woman
0905-1399	Assistants, Continuous Plant Operating, nec
<b>0907</b>	<b>HOISTING AND LOADING EQUIPMENT OPERATORS</b>
<b>0907-01</b>	<b>CRANE OPERATORS</b>
0907-0101	Mobile Crane Driver
0907-0103	Tower Crane Driver
0907-0105	Cabin Controlled Overhead Crane Driver
0907-0199	Crane Operators, nec
<b>0907-03</b>	<b>HOIST, WINCH AND LIFT OPERATORS</b>
0907-0301	Hoist Operator, Materials and Workers
0907-0303	Winch Operator
0907-0305	Wireline Operator (Electric Line)
0907-0307	Winding Engine Driver
0907-0309	Platman/woman
0907-0311	Skipman/woman
0907-0313	Braceman/woman (Mine Cage)
0907-0399	Hoist, Winch and Lift Operators, nec

**0907-05 SHIP AND TRAIN LOADING EQUIPMENT OPERATORS**

0907-0501 Ship Loader Operator  
 0907-0503 Bucketwheel Reclaimer Operator  
 0907-0505 Stacker Operator  
 0907-0507 Train Loader Operator  
 0907-0509 Car Dumper Operator  
 0907-0511 Bulk Materials Handling Equipment Operator, General  
 0907-0599 Bulk Materials Handling Equipment Operators, nec

**0907-07 CONVEYOR BELT OPERATORS**

0907-0701 Conveyor Belt Operator, Underground Coal Mine  
 0907-0703 Conveyor Belt Operator, Bulk Materials Handling  
 0907-0705 Grizzlyman/woman

**0907-09 TRAINEES, HOISTING AND LOADING EQUIPMENT OPERATING**

0907-0901 Wireline Operator Trainee (Electric Line)

**0909 OTHER STATIONARY EQUIPMENT OPERATORS****0909-01 PUMPS AND ANCILLARY EQUIPMENT OPERATORS**

0909-0101 Fluids Handler  
 0909-0103 Compressor Turbine Operator  
 0909-0105 Gas Tester  
 0909-0107 Pipe Tester  
 0909-0109 Cementer, Oil Well  
 0909-0111 Well Treatment Blender Operator  
 0909-0113 Well Treatment Pump Operator  
 0909-0115 Hydraulic Fill Operator  
 0909-0117 Plant Operator, Pumping, Blending and Shipping (Petroleum Products)

**0909-03 FURNACE OPERATORS**

0909-0301 Roaster Operator  
 0909-0303 Furnace Operator (Pellet Plant)  
 0909-0305 Bottom Floor Operator (Pellet Plant)  
 0909-0307 Open Hearth Furnace Operator  
 0909-0309 Blast Furnace Operator (Iron and Steel)  
 0909-0311 Oxygen (BOS) Furnace Operator  
 0909-0313 Pot Operator (Aluminium)  
 0909-0315 Incinerator Plant Attendant  
 0909-0317 Crematorium Operator  
 0909-0319 Carbon Plant Worker  
 0909-0399 Furnace Operators and Attendants, nec

**0909-05 KILN OPERATORS**

0909-0501 Kiln Operator, Cement/Lime and Clay Products  
 0909-0503 Tunnel Kiln Operator, Clay Products  
 0909-0505 Kiln Dryer Operator (Wood Processing)  
 0909-0507 Kiln Operator (Wood Processing)  
 0909-0509 Ovens and Humidifier Operator

**0909-07 DRILL OPERATORS**

0909-0701 Drill Operator, Fluids Drilling  
 0909-0703 Water Well Driller  
 0909-0705 Diamond Driller (Mineral Exploration)  
 0909-0707 Jumbo Drill Operator  
 0909-0709 Raise Boring Machine Operator  
 0909-0711 Long Hole Drill Operator  
 0909-0713 Development Machine Miner  
 0909-0715 Coal Seam Driller  
 0909-0717 Rotary Drill Operator  
 0909-0799 Drill Equipment Operators, Fluids Drilling, nec

**0909-09 WELL SERVICE EQUIPMENT OPERATORS**

0909-0901 Reeled Tubing Operator  
 0909-0903 Service Rig Operator  
 0909-0905 Power Tong Operator  
 0909-0907 Snubbing Unit Operator  
 0909-0909 Fishing Tool Operator

**0909-11 ASSISTANTS, OTHER STATIONARY EQUIPMENT OPERATING**

0909-1101 Well Treatment Helper  
 0909-1103 Roughneck  
 0909-1105 Assistant Shot-Firer  
 0909-1107 Cementer Helper, Oil Well  
 0909-1109 Diamond Driller s Assistant (Mineral Exploration)  
 0909-1111 Water Well Driller s Assistant  
 0909-1113 Assistant Plant Operator, Pumping, Blending and Shipping (Petroleum Products)  
 0909-1115 Assistant Driller (Fluids Drilling)  
 0909-1117 Assistant Plant Operator (Oil Terminal)

**0909-13 TRAINEES, OTHER STATIONARY EQUIPMENT OPERATING**

0909-1301 Rotary Driller s Offsider  
 0909-1303 Jumbo Operator s Assistant  
 0909-1305 Reeled Tubing Operator Trainee

**0909-99 OTHER STATIONARY EQUIPMENT OPERATORS, NEC**

0909-9901 Vibrator Operator, Seismic Prospecting

## 10 PROCESSING, FABRICATING AND RELATED OCCUPATIONS

### 1001 MINERAL ORE PROCESSING OCCUPATIONS

#### 1001-01 CRUSHING, GRINDING AND SCREENING OCCUPATIONS

- 1001-0101 Leading Hand, Primary Crusher
- 1001-0103 Crusher Attendant
- 1001-0105 Grinding Mill Operator
- 1001-0107 Screen Attendant

#### 1001-03 WASHING, MIXING, SEPARATING AND FILTERING OCCUPATIONS

- 1001-0301 Wash Plant Operator
- 1001-0303 Thickener Operator
- 1001-0305 Flotation Operator
- 1001-0307 Solutionist
- 1001-0309 Precipitator Attendant
- 1001-0311 Filter Operator (Mineral Ore Treating)
- 1001-0313 Magnetic Separator Attendant
- 1001-0315 Gravity Separator Attendant
- 1001-0317 Table Operator (Ore Treating)
- 1001-0319 Alluvial Separation Plant Operator
- 1001-0321 Dry Mill Separation Operator
- 1001-0323 Surface Hydraulic Fill Operator

#### 1001-05 OTHER MINERAL ORE PROCESSING OCCUPATIONS

- 1001-0501 Pellet Drum/Disc Operator
- 1001-0503 Amalgamator Operator
- 1001-0505 Reagent Attendant
- 1001-0507 Clarifier Operator
- 1001-0509 Electrolytic Cell Attendant
- 1001-0599 Other Mineral Ore Processing Occupations, nec

#### 1001-07 MINERAL SAMPLING AND TESTING OCCUPATIONS

- 1001-0701 Mine Sampler
- 1001-0703 Coal Sampler
- 1001-0705 Coal Sample Tester
- 1001-0707 Sample Washer
- 1001-0709 Iron Pellet Tester

### 1003 METAL, ELECTRICAL AND ELECTRONIC PRODUCTS PROCESSING & FABRICATING OCCUPATIONS

#### 1003-01 METAL ROLLING MILL OPERATORS

- 1003-0101 Rolling Mill Operator (Ferrous; Non-Ferrous Metals)
- 1003-0103 Rolling Mill Assistant

#### 1003-03 METAL MOULDING AND EXTRUDING MACHINE OPERATORS

- 1003-0301 Casting Machine Operator
- 1003-0303 Ladleman/woman (Ferrous; Non-Ferrous Metals)
- 1003-0305 Machine Moulder
- 1003-0307 Extrusion Press Operator, Metal
- 1003-0309 Wire Drawer
- 1003-0311 Sheathing Extruder

#### 1003-05 METAL HEAT TREATING MACHINE OPERATORS

- 1003-0501 Heat Treatment Operator, General
- 1003-0503 Annealer
- 1003-0505 Hardener
- 1003-0507 Temperer
- 1003-0509 Case Hardener
- 1003-0511 Soaking Pit Furnace Operator

#### 1003-07 OTHER MACHINE OPERATORS, METAL, ELECTRICAL AND ELECTRONIC PRODUCTS FABRICATING

- 1003-0701 Electroplater, Second Class
- 1003-0703 Metal Sprayer
- 1003-0705 Sheet Metal Worker, Second Class (Manufacturing)
- 1003-0707 Sheet Metal Worker, Second Class (Installation)
- 1003-0709 Metal Shaping and Forming Machine Operator
- 1003-0711 Process Worker, Machine Operation (Metal)
- 1003-0713 Machine Operator, Process Work (Electrical and Electronic Equipment)

#### 1003-09 WELDING MACHINE OPERATORS (NON-TRADES)

- 1003-0901 Gas-Shielded-Arc Welding Machine Operator
- 1003-0903 Electric-Arc Welder
- 1003-0905 Oxy-acetylene Welder/Cutter
- 1003-0907 Brazier
- 1003-0909 Solderer
- 1003-0999 Welding Machine Operators (Non-Trades), nec

#### 1003-11 MANUAL PROCESS WORKERS, METAL AND RELATED PRODUCTS

- 1003-1101 Trades Assistant, Metal and Metal Products
- 1003-1103 Production Worker, Metal Processing
- 1003-1105 Production Worker, Metal Finishing
- 1003-1107 Process Worker, Assembly (Metal)
- 1003-1109 Process Worker, Electrical and Electronic Equipment
- 1003-1111 Hollow-ware Assembler
- 1003-1113 Process Worker, Jewellery Assembly

### 1005 RUBBER, CHEMICAL AND PLASTIC PRODUCTS PROCESSING & FABRICATING OCCUPATIONS

#### 1005-01 MACHINE OPERATORS, PLASTIC PRODUCTS

- 1005-0101 Plastics Blending Machine Operator
- 1005-0103 Extruding Machine Operator (Plastics)
- 1005-0105 Injection/Compression/Transfer Moulding Machine Operator
- 1005-0107 Blow Moulding Machine Operator
- 1005-0109 Cellular Plastics Machine Operator
- 1005-0111 Thermoforming Machine Operator
- 1005-0113 Rotational Moulding Machine Operator
- 1005-0115 Plastics Sheet Press Operator

**1005-03 MANUAL PROCESS WORKERS, PLASTICS PRODUCTS**  
 1005-0301 Powder Hand (Plastics)  
 1005-0303 Cellular Plastics Cutter  
 1005-0305 Mould Hand (Plastics)  
 1005-0307 Gun Hand (Plastics)  
 1005-0309 Hand Laminator  
 1005-0311 Plastics Sheet Fabricator  
 1005-0399 Plastic Fabricating Occupations, nec

**1005-05 TYRE PRODUCTION OCCUPATIONS**  
 1005-0501 Tyre Builder  
 1005-0503 Tyre Retreader  
 1005-0599 Tyre Production Occupations, nec

**1005-07 RUBBER PRODUCTION OCCUPATIONS (EXCEPT TYRES)**  
 1005-0701 Knitting Machine Operator, Rubber Products  
 1005-0703 Roll Builder  
 1005-0705 Roller Grinder Operator  
 1005-0707 Tank Liner  
 1005-0799 Rubber Production Occupations (Except Tyres), nec

**1005-09 MACHINE OPERATORS, PHARMACEUTICALS AND TOILETRIES PRODUCTS**  
 1005-0901 Pharmaceutical Operator  
 1005-0903 Sterile Products Processer  
 1005-0905 Fermenter, Antibiotics  
 1005-0907 Autoclave Operator (Chemicals)  
 1005-0909 Granulator Machine Operator  
 1005-0911 Tablet Making Machine Operator  
 1005-0913 Tablet Coating Machine Operator  
 1005-0915 Ampoule Filler  
 1005-0917 Make-up Plant Operator (Chemicals)

**1005-11 PROCESS WORKERS AND ASSISTANTS, PHARMACEUTICALS AND TOILETRIES PRODUCTS**  
 1005-1101 Soap Maker  
 1005-1103 Toiletries Moulder and Compressor  
 1005-1105 Suture Maker  
 1005-1107 Assistant Plant Operator, Pharmaceuticals and Toiletries Products  
 1005-1199 Process Workers and Assistants, Pharmaceuticals and Toiletries Products, nec

**1005-13 MACHINE OPERATORS, EXPLOSIVES PRODUCTION**  
 1005-1301 Mixer Operator, Explosives  
 1005-1303 Powder Blender, Explosives  
 1005-1305 Nitrocellulose Maker  
 1005-1307 Fuse Maker  
 1005-1309 Bullet Maker  
 1005-1311 Assistant Plant Operator, Explosives Production

**1005-15 MANUAL PROCESS WORKERS, EXPLOSIVES PRODUCTION**  
 1005-1501 Munitions Maker  
 1005-1503 Munitions Hand  
 1005-1505 Munitions Handler

**1005-17 PROCESS WORKERS, INDUSTRIAL AND MEDICAL GAS PRODUCTION**  
 1005-1701 Compressed Gas Plant Worker  
 1005-1703 Pressurised Container Filler

**1005-19 PROCESS WORKERS, PHOTOGRAPHIC PRODUCTS**  
 1005-1901 Photographic Developer and Printer  
 1005-1903 Film Spooler  
 1005-1905 Laboratory Assistant, Photographic Processing

**1005-21 MACHINE OPERATORS, CHEMICAL PRODUCTION**  
 1005-2101 Batch Still Operator (Chemicals)  
 1005-2103 Calender Operator  
 1005-2105 Chemical Process Operator, Batching  
 1005-2107 Chemical Process Unit Operator  
 1005-2109 Chlorination Plant Operator (Chemicals)  
 1005-2111 Compounder (Chemicals)  
 1005-2113 Kettle Operator (Chemicals)  
 1005-2115 Mixer (Chemicals)  
 1005-2117 Filter Press Operator (Chemicals)  
 1005-2119 Pilot Plant Operator (Chemicals)  
 1005-2121 Solutions Plant Operator  
 1005-2123 Vacuum Pan Operator (Chemicals)  
 1005-2125 Distillation Operator (Chemicals)  
 1005-2127 Recovery Plant Operator  
 1005-2129 Acid Plant Operator  
 1005-2199 Machine Operators, Chemical Production, nec

**1005-23 PRODUCTION ASSISTANTS, CHEMICALS AND RELATED PRODUCTS**  
 1005-2301 Production Assistant, Chemicals and Related Products

**1007 WOOD AND PAPER PRODUCTS PROCESSING AND FABRICATING OCCUPATIONS**

**1007-01 WOODWORKING MACHINE OPERATORS**  
 1007-0101 Debarker Operator  
 1007-0103 Drop-Sorter Operator  
 1007-0105 Dockerman/woman  
 1007-0107 Edgerman/woman  
 1007-0109 Stock Cutter (Timber Yard)  
 1007-0111 Chipper Operator  
 1007-0113 Leverman/woman  
 1007-0115 Log Preparer  
 1007-0117 Sanding Machine Operator  
 1007-0119 Trim Saw Operator  
 1007-0121 Sheet Thickness Tolerance Machine Operator  
 1007-0123 Moulder Operator, Sawmill

**1007-03 PLYWOOD AND VENEER MANUFACTURING OCCUPATIONS**  
 1007-0301 Veneer Lathe/Slicer Operator  
 1007-0303 Centre Layer  
 1007-0305 Veneer Clipper  
 1007-0307 Plywood and Veneer Repairer  
 1007-0309 Veneer Splicing Machine Operator  
 1007-0311 Cross Feed Splicer Operator  
 1007-0313 Glue Mixer  
 1007-0315 Press Operator (Wood Processing)  
 1007-0317 In-feed Operator  
 1007-0319 Veneer Guillotine Operator

**1007-05 PARTICLEBOARD AND HARDBOARD MANUFACTURING OCCUPATIONS**

- 1007-0501 Press Line Operator, Particleboard Manufacture
- 1007-0503 Forming Line Operator, Particleboard Manufacture
- 1007-0505 Forming Line Operator, Hardboard Manufacture
- 1007-0507 Press Operator, Hardboard Manufacture
- 1007-0509 Oil Tempering Machine Operator
- 1007-0511 Wood Fibre Refining Machine Operator
- 1007-0599 Other Particleboard and Hardboard Manufacturing Occupations

**1007-07 MANUAL PROCESS WORKERS, WOOD PRODUCTS**

- 1007-0701 Joiner Assembler, A Grade
- 1007-0703 Joiner Assembler, B Grade
- 1007-0705 Furniture Assembler, First Class
- 1007-0707 Furniture Assembler, Second Class
- 1007-0709 Trade Assistant, Wood Products

**1007-09 PAPER MAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS**

- 1007-0901 Pulp Refiner Operator (Papermaking)
- 1007-0903 Paper Machine Operator
- 1007-0905 Dryer Operator, Paper Machine
- 1007-0907 Paperboard Machine Operator
- 1007-0909 Coating Machine Operator (Papermaking)
- 1007-0911 Supercalender Operator
- 1007-0913 Winder Operator
- 1007-0915 Rewinder Operator
- 1007-0917 Cutter Operator (Paper)
- 1007-0919 Paper Machine Hand
- 1007-0921 Press Operator, Insulation Board
- 1007-0923 Paper Product Fabricating and Assembling Machine Operator

**1009 CLAY, GLASS AND STONE PROCESSING OCCUPATIONS****1009-01 GLASS PROCESSING AND FABRICATING OCCUPATIONS**

- 1009-0101 Glass Melt Operator
- 1009-0103 Glassware Maker
- 1009-0105 Glassware Process Operator
- 1009-0107 Glassware Process Assistant
- 1009-0199 Glass Processing and Fabricating Occupations, nec

**1009-03 CLAY AND STONE PROCESSING OCCUPATIONS**

- 1009-0301 Batcher, Premix Concrete
- 1009-0303 Moulder/Machine Operator, Fibre-Cement
- 1009-0305 Machine Operator, Cement Pipe
- 1009-0307 Concrete Pre-cast Moulder
- 1009-0309 Extruder Operator, Clay Products
- 1009-0311 Press Operator, Clay Products
- 1009-0313 Machine Operator, Stone
- 1009-0315 Cement Plant Operator
- 1009-0317 Plasterboard Maker
- 1009-0319 Insulation Maker
- 1009-0321 Clay Processing and Forming Machine Tender
- 1009-0323 Process Worker, Fibre-Cement
- 1009-0325 Porcelain Turner
- 1009-0399 Clay and Stone Processing Occupations, nec

**1011 HIDE, YARN AND TEXTILE PRODUCTS PROCESSING AND FABRICATING OCCUPATIONS****1011-01 YARN PROCESSING OCCUPATIONS**

- 1011-0101 Wool Scouring Operator
- 1011-0103 Carding Machine Operator
- 1011-0105 Spinning Machine Operator
- 1011-0107 Cotton Ginner

**1011-03 HIDE AND SKIN PROCESSING OCCUPATIONS**

- 1011-0301 Tannery Operator
- 1011-0303 Leather Finishing Operator

**1011-05 FABRIC PRODUCTION MACHINE OPERATORS**

- 1011-0501 Warp Sizer
- 1011-0503 Warper
- 1011-0505 Fabric Weaver
- 1011-0507 Carpet Weaver
- 1011-0509 Drawer-in
- 1011-0511 Tier-in
- 1011-0513 Knitting Machine Operator
- 1011-0515 Dyeing, Bleaching, Finishing Machine Operator
- 1011-0517 Needle Loom Operator
- 1011-0519 Tufting Machine Operator
- 1011-0521 Bonding Machine Operator
- 1011-0523 Rope Making Machine Operator

**1011-07 GARMENT MAKING OCCUPATIONS**

- 1011-0701 Sewing Machine Operator (Textiles)
- 1011-0703 Mender, Textile Products
- 1011-0705 Cutter Hand, Furriers

**1011-09 SHOEMAKING PRODUCTION OCCUPATIONS**

- 1011-0901 Process Worker, Shoe Cutting
- 1011-0903 Process Worker, Shoemaking
- 1011-0905 Process Worker, Shoe Finishing
- 1011-0907 Process Worker, Shoe Machining
- 1011-0999 Shoemaking Production Occupations, nec

**1013 FOOD, TOBACCO AND BEVERAGE PRODUCTS PROCESSING OCCUPATIONS****1013-01 BEVERAGE PROCESSING OCCUPATIONS (NON-DAIRY)**

- 1013-0101 Distiller (Beverages)
- 1013-0103 Brewhouse Operator
- 1013-0105 Brewery Cellar Operator
- 1013-0107 Cellarhand, Winery
- 1013-0109 Soft Drink Mixer
- 1013-0111 Fruit and Vegetable Juicer Operator
- 1013-0199 Beverage Processing Occupations (Non-Dairy), nec

**1013-03 DAIRY PRODUCTS PROCESSING MACHINE OPERATORS**

- 1013-0301 Milk Treater
- 1013-0303 Evaporator/Spray Dryer Operator
- 1013-0305 Ice Cream Maker

**1013-05 MEAT PROCESSING MACHINE OPERATORS**

- 1013-0501 Smallgoods Processing Equipment Operator
- 1013-0503 Defeatherer/Eviscerator Operator
- 1013-0505 Poultry Saws Operator
- 1013-0507 Casings Worker
- 1013-0509 Fish Cooker
- 1013-0511 Fish Plant Operator
- 1013-0513 Meat By-Products Machine Operator

**1013-07 FRUIT AND VEGETABLE MACHINE OPERATORS**

- 1013-0701 Fruit and Vegetable Machinery Operator
- 1013-0703 Jam and Sauce Cook

**1013-09 CEREALS, FIELD CROPS AND SUGAR PROCESSING MACHINE OPERATORS**

- 1013-0901 Cereal Milling Machine Operator
- 1013-0903 Stockfeed Milling Machine Operator
- 1013-0905 Oilseed Processing Operator
- 1013-0907 Sugar Boiler
- 1013-0909 Sugar Processing Machine Operator
- 1013-0911 Maltster
- 1013-0913 Breakfast Cereal Maker
- 1013-0915 Machine Attendant, Tobacco Processing and Tobacco Products Manufacturing
- 1013-0917 Technical Operator, Tobacco Products Manufacturing
- 1013-0999 Cereals, Field Crops and Sugar Processing Machine Operators, nec

**1013-11 OTHER FOOD AND RELATED PRODUCTS MACHINE OPERATORS**

- 1013-1101 Margarine Maker
- 1013-1103 Foods Extruder Operator
- 1013-1105 Retort Operator
- 1013-1107 Syrup Maker
- 1013-1109 Frozen Foods Operator
- 1013-1111 Can Filler and Closer Operator
- 1013-1113 Food Packaging Machine Operator
- 1013-1199 Food Processing Machine Operators, nec

**1013-13 BASIC PROCESSING OCCUPATIONS, MEAT PRODUCTS**

- 1013-1301 Meatworks Labourer, Knife
- 1013-1303 Meat Cutter
- 1013-1305 Meat Boner
- 1013-1307 Poultry Boner
- 1013-1309 Poultry Processing Worker
- 1013-1311 Fish Filleter
- 1013-1313 Fish Process Worker

**1013-15 OTHER BASIC PROCESSING OCCUPATIONS, FOOD PRODUCTS**

- 1013-1501 Fruit and Vegetable Processer
- 1013-1503 Bread Room Hand
- 1013-1505 Biscuit Processer
- 1013-1507 Dairy Factory Worker
- 1013-1509 Egg Process Worker

**1015 INSPECTING, TESTING AND QUALITY CONTROL OCCUPATIONS (NON-TRADES)****1015-01 INSPECTING, TESTING AND QUALITY CONTROL OCCUPATIONS (NON-TRADES)**

- 1015-0101 Process Worker, Testing and Examining (Metal)
- 1015-0103 Quality Control Inspector (Metal Products)
- 1015-0105 Automobile Inspector
- 1015-0107 Process Worker, Testing (Electrical and Electronic Equipment)
- 1015-0109 Tyre Finisher/Examiner
- 1015-0111 Examiner, Rubber Products
- 1015-0113 Assistant, Inspecting and Testing (Chemicals)
- 1015-0115 Examiner, Plastics Products
- 1015-0117 Timber Grader
- 1015-0119 Machine Stress Grader Operator
- 1015-0121 Pulp Tester (Papermaking)
- 1015-0123 Paper Tester
- 1015-0125 Glassware Verifier
- 1015-0127 Tester, Clay and Stone Products
- 1015-0129 Quality Control Inspector, Apparel
- 1015-0131 Meat Grader
- 1015-0133 Fruit and Vegetable Classer
- 1015-0135 Quality Control Inspector, Food and Related Products
- 1015-0137 Yarn and Fabric Examiner
- 1015-0139 Quality Controller, Furniture, Cushions and Covers
- 1015-0141 Non-Destructive Testing Assistant
- 1015-0143 Inspector, Pharmaceuticals and Toiletries

**1017 PACKAGING MACHINE OPERATORS****1017-01 PACKAGING MACHINE OPERATORS**

- 1017-0101 Packaging Line Machine Operator, General (Except Food and Chemical)
- 1017-0103 Bottling Machine Attendant
- 1017-0105 Liquids Filler
- 1017-0107 Baling or Compression Machine Operator
- 1017-0109 Machine Labeller
- 1017-0111 Strapping Machine Attendant
- 1017-0113 Automatic Palletiser/Depalletiser Operator
- 1017-0115 Carton Packing Machine Attendant
- 1017-0117 Packaging Machine Feeder
- 1017-0119 Sack/Bag Filler
- 1017-0121 Carton Cutting and Creasing Forme Setter
- 1017-0199 Packaging Machine Operators, nec

**1099 OTHER PROCESSING OCCUPATIONS****1099-99 OTHER PROCESSING OCCUPATIONS**

- 1099-9901 Brushmaker
- 1099-9903 Linoleum Maker
- 1099-9905 Assistant Linoleum Maker
- 1099-9907 Assistant Soap Maker

## 11 BASIC MANUAL OCCUPATIONS

### 1101 BASIC MANUAL OCCUPATIONS

#### 1101-01 GARBAGE AND WASTE COLLECTORS

1101-0101 Garbage Collector

#### 1101-03 LUGGAGE PORTERS

1101-0301 Railway Porter, Luggage

1101-0303 Ship s Porter

1101-0305 Aircraft Loader

1101-0307 Hotel Porter

#### 1101-05 ROAD AND RAIL FREIGHT AND FURNITURE HANDLERS

1101-0501 Truck Driver s Offsider

1101-0503 Freight Handler (Road or Rail)

1101-0505 Furniture Removalist s Assistant

1101-0507 Furniture Packer

1101-0509 Assistant Storeman/woman

#### 1101-07 HAND PACKERS

1101-0701 Meat Packer

1101-0703 Fruit/Vegetable Packer

1101-0799 Hand Packers, nec

#### 1101-09 OTHER FREIGHT AND GOODS HANDLING AND PACKAGING OCCUPATIONS

1101-0999 Other Freight and Goods Handling and Packaging Occupations, nec

#### 1101-11 CONSTRUCTION LABOURERS

1101-1101 Builder s Labourer

1101-1103 Labourer, Building Site

1101-1105 Insulation Installer

1101-1107 Installer, Home Improvements

1101-1109 Fence Erector

1101-1199 Construction Labourers, nec

#### 1101-13 EARTHMOVING LABOURERS

1101-1301 Labourer, Earthmoving

#### 1101-15 PAVING AND SURFACING LABOURERS

1101-1501 Labourer, Paving and Surfacing

#### 1101-17 RAILWAY LABOURERS

1101-1701 Labourer, Railway Track

#### 1101-19 SURVEY HANDS

1101-1901 Survey Hand

#### 1101-21 LABOURERS, ELECTRICAL POWER AND COMMUNICATION LINES

1101-2101 Labourer, Electrical Power and Communications

#### 1101-23 LABOURERS, MINING AND MINERAL ORE TREATING

1101-2300 Roustabout (Fluids Drilling)

1101-2300 Shooter Helper

1101-2301 Labourer, Quarry/Open Cut Mine

1101-2303 Labourer, Underground Mine

1101-2305 Labourer, Ore and Minerals Treating

1101-2307 Observer Helper, Gravity Prospecting

1101-2309 Observer Helper, Seismic Prospecting

#### 1101-25 CLEANING OCCUPATIONS

1101-2501 Industrial Cleaner

1101-2503 Commercial Cleaner

1101-2505 Hospital Cleaner

1101-2507 Window Cleaner

1101-2509 Carpet Cleaner

1101-2511 Vehicle Cleaner

1101-2513 Cabin Cleaner

1101-2599 Cleaning Occupations, nec

#### 1101-27 LAUNDRY OCCUPATIONS

1101-2701 Laundry Machine Attendant

1101-2703 Labourer, Laundry

#### 1101-29 FACTORY HANDS AND LABOURERS

1101-2901 Factory Hand/Labourer, Metal Processing

1101-2903 Labourer, Sawmill

1101-2905 Factory Hand/Labourer, Wood Products Fabricating

1101-2907 Factory Hand/Labourer, Wood Processing

1101-2909 Factory Hand/Labourer, Pulp, Papermaking and Paper Product Fabricating

1101-2911 Factory Hand/Labourer, Cement Plant

1101-2913 Factory Hand/Labourer, Clay Processing

1101-2915 Factory Hand/Labourer, Chemical Plant

1101-2917 Labourer, Meatworks

1101-2919 Factory Hand/Labourer, Dairy Processing

1101-2921 Labourer, Hide and Skin Processing

1101-2923 General Hand, Printing

1101-2925 Kitchenhand

#### 1101-31 FARM HANDS AND ASSISTANTS

1101-3101 Farm/Station Hand, Livestock and/or Field Crops

1101-3103 Farm Hand, Fruit and Vegetables (Horticultural Crops)

1101-3105 Shearing Shed Hand

1101-3107 Apiary Assistant

1101-3109 Hatchery Assistant

1101-3111 Farm Labourer

1101-3113 Wool Presser

#### 1101-33 FORESTRY LABOURERS

1101-3301 General Forestry Worker

1101-3303 Tree Marker

1101-3305 Hardwood Faller

1101-3307 Softwood Faller

1101-3309 Timber Assessor

1101-3311 Landing Operator (Logging)

1101-3399 Other Forestry Occupations, nec

#### 1101-35 FISHERMEN/WOMEN, DECKHANDS ON FISHING VESSELS

1101-3501 Fisherman/woman, Deckhand on Sea-Going Fishing Vessels

1101-3503 Fisherman/woman, Inland Waters and Estuary

#### 1101-37 OTHER FISHING, HUNTING, TRAPPING AND RELATED OCCUPATIONS

1101-3701 Oyster Grower

1101-3703 Oyster Grower s Assistant

1101-3705 Fish Farm Worker

1101-3707 Shooter/Trapper

1101-3799 Fishing and Related Occupations, nec

**1101-99 BASIC MANUAL OCCUPATIONS, NEC**

- 1101-9901 Nursery Attendant (Horticulture)
- 1101-9903 Animal Attendant
- 1101-9905 Crematorium Assistant
- 1101-9907 Groundsman/woman, Lodging and Accommodation
- 1101-9909 Handyman/woman
- 1101-9911 Canteen Assistant
- 1101-9913 Vending Machine Attendant

**1203-05 MUSICIANS AND RELATED OCCUPATIONS**

- 1203-0501 Choral Director
- 1203-0503 Concert and Opera Singer
- 1203-0505 Instrumental Musician
- 1203-0507 Orchestra Conductor
- 1203-0509 Popular Singer
- 1203-0511 Teacher, Instrumental Music (Private)
- 1203-0513 Teacher, Vocal Music (Private)
- 1203-0599 Musicians and Related Occupations, nec

**1203-07 DANCERS**

- 1203-0701 Dancer

**1203-09 MODELS**

- 1203-0901 Model

**1203-11 ANNOUNCERS AND RELATED OCCUPATIONS**

- 1203-1101 Announcer
- 1203-1103 Compere
- 1203-1105 Disc Jockey
- 1203-1107 Sport Commentator
- 1203-1109 Announcers and Related Occupations, nec

**1205 SPORTING OCCUPATIONS****1205-01 COACHES, TRAINERS AND INSTRUCTORS (SPORT)**

- 1205-0101 Coach, Sport

**1205-03 SPORTS OFFICIALS**

- 1205-0301 Steward, Race
- 1205-0303 Referee

**1205-05 PROFESSIONAL SPORTSPERSONS**

- 1205-0501 Jockey
- 1205-0503 Driver/Cyclist (Sport)
- 1205-0599 Professional Sportspersons, nec

**1205-99 SPORTING OCCUPATIONS, NEC**

- 1205-9999 Sporting Occupations, nec

**12 OCCUPATIONS NOT ELSEWHERE CLASSIFIED****1201 RELIGIOUS OCCUPATIONS, NEC****1201-01 RELIGIOUS OCCUPATIONS, NEC**

- 1201-0101 Nun/Monk
- 1201-0103 Religious Education Worker
- 1201-0199 Other Religious Occupations, nec

**1203 PERFORMING ARTS OCCUPATIONS****1203-01 ACTORS**

- 1203-0101 Actor
- 1203-0103 Teacher, Dramatic Art (Private)
- 1203-0199 Actors and Related Occupations, nec

**1203-03 POPULAR ENTERTAINERS AND STAGE PERFORMERS**

- 1203-0301 Comedian
- 1203-0303 Variety Artist
- 1203-0399 Popular Entertainers and Stage Performers, nec

**13 MILITARY OCCUPATIONS**

## **MAJOR GROUP 01 MANAGERIAL AND SUPERVISORY OCCUPATIONS**

This major group contains managerial and supervisory occupations as well as a number of occupations unique to government. Occupations in this major group are concerned, at various levels, with planning, direction, organisation and control of the economy and society as a whole, of establishments and organisation, projects and personnel.

Minor groups are distinguished from each other on the basis of level of responsibility; unit groups are distinguished on the basis of skill specialisation.

Occupations in this major group are classified into the following minor groups:

0101 LEGISLATORS AND GOVERNMENT APPOINTED  
OFFICIALS

0103 MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS

0105 SUPERVISORS/FOREMEN/WOMEN

Excluded from this major group are farming and farm managing occupations which are classified in Major Group 08 SKILLED AGRICULTURAL OCCUPATIONS.

## MINOR GROUP 0101 LEGISLATORS AND GOVERNMENT APPOINTED OFFICIALS

This minor group contains occupations unique to government concerned with formulating policy and enacting, interpreting, implementing and revising legislation. Persons employed in these occupations are elected and/or appointed.

Occupations in this minor group are classified into the following unit groups:

### 0101-01 MEMBERS OF PARLIAMENT

### 0101-03 VICE REGAL AND GOVERNMENT APPOINTED OFFICIALS

#### 0101-01 MEMBERS OF PARLIAMENT

This unit group covers occupations concerned with formulating policies of Federal and State governments and with enacting, revising and repealing legislation.

**Entry Requirements:** Election and, in some cases, appointment.

**Activities:** Participating in parliamentary activities, speaking in debates, acting as a member on parliamentary committees, voting on motions, investigating matters of concern to interested parties, tabling questions, introducing proposals.

**Occupations:**

0101-0101 Member of Parliament

#### 0101-03 VICE-REGAL AND GOVERNMENT APPOINTED OFFICIALS

This unit group covers occupations concerned with approving,

interpreting and implementing various aspects of government policy and legislation.

**Entry Requirements:** Wide experience in public affairs and appointment by government.

**Activities:** Examining proposed legislation, consulting with government ministers, interpreting constitutional law, deciding on matters of constitutional legality, providing advice affecting the formulation of policy, assisting in the implementation of policy, receiving and investigating complaints from citizens against the actions taken by the government or its agencies.

**Occupations:**

0101-0301 Governor or Governor-General

0101-0303 Ambassador or High Commissioner

0101-0305 Ombudsman/woman

## MINOR GROUP 0103 MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS

This minor group contains occupations concerned with planning, direction, organisation and control of various types of organisations or of particular activities of an organisation. Persons employed in these occupations perform duties as described under the Master Titles GENERAL MANAGER and MANAGER.

Occupations in this minor group are classified into the following unit groups:

### 0103-01 GENERAL MANAGERS

### 0103-03 FINANCE MANAGERS

### 0103-05 SALES AND MARKETING MANAGERS

### 0103-07 PRODUCTION MANAGERS

### 0103-09 SUPPLY AND DISTRIBUTION MANAGERS

### 0103-11 PERSONNEL AND INDUSTRIAL RELATIONS MANAGERS

### 0103-13 DATA PROCESSING MANAGERS

### 0103-15 ENGINEERING MANAGERS

### 0103-17 RESEARCH MANAGERS

### 0103-19 POLICY ADVISORY MANAGERS UNIQUE TO GOVERNMENT

### 0103-99 OTHER MANAGEMENT OCCUPATIONS

#### 0103-01 GENERAL MANAGERS

This unit group covers occupations concerned with general management of government, industrial, commercial, financial and other business organisations including semi-government

businesses such as Telecom and Australia Post, and involving functions such as planning, development and review of policy, in addition to direction and control through sub-ordinate management.

**Entry Requirements:** In most cases, a degree/diploma/para-professional certificate, often supplemented by a higher degree or additional training in management or a related area, plus 5-10 years' experience.

**Activities:** As per Master Title GENERAL MANAGER.

**Occupations:**

- 0103-0101 General Manager (Upper Level)
- 0103-0103 General Manager (Middle Level)
- 0103-0105 General Manager (Lower Level)

**0103-03 FINANCE MANAGERS**

This unit group covers occupations concerned with overall management of the financial activities of industrial, commercial, financial and other organisations, including public and private sector.

**Entry Requirements:** Normally a degree/diploma/para-professional certificate in accounting, economics, commerce, law or a related discipline, often supplemented by a higher degree or additional training in management or a related area, plus 5-10 years' experience.

**Activities:** As per Master Title MANAGER; developing and recommending broad financial policies; *managing funds*; directing preparation of financial and accounting information and interpreting reports for senior management; developing management accounting systems and budgetary controls concerned with investment policy, the placement of funds and the management of borrowings, as well as the distribution of earnings; ensuring the consolidation of regular reports, budgets and forecasts from other divisions for submission to senior management; and being involved in the direction of or participation in legal and secretarial functions, credit collection and lending functions, corporate planning and business development, taxation, audit, insurance and property administration matters, as well as tender preparation and contract administration.

**Occupations:**

- 0103-0301 Financial Manager (Senior Level)
- 0103-0303 Financial Manager (Middle Level)
- 0103-0305 Financial Manager (Lower Level)

**0103-05 SALES AND MARKETING MANAGERS**

This unit group covers occupations concerned with overall management of the sales and marketing activities of industrial, commercial, financial, service or other organisations, including public and private sector.

**Entry Requirements:** A degree/diploma/para-professional certificate in a relevant discipline such as business administration, economics, commerce or marketing, or specific industry, or product related qualifications, in additional training in management or a related area; and/or 5-10 years' experience, including specific training in the fields of supervision, sales management, sales promotion, merchandising and advertising.

**Activities:** As per Master Title MANAGER.

**Occupations:**

- 0103-0501 Sales and Marketing Manager (Senior Level)
- 0103-0503 Sales and Marketing Manager (Middle Level)
- 0103-0505 Sales and Marketing Manager (Lower Level)

**0103-07 PRODUCTION MANAGERS**

This unit group covers occupations concerned with overall management of the production activities of industrial or other organisations, including public and private sector.

**Entry Requirements:** A degree/diploma/associate diploma/para-professional certificate/trade qualification in a relevant discipline such as science, engineering, ergonomics, commerce or operations research, often supplemented by a higher degree or additional training in management or a related area, including internal training, plus 5-10 years' experience.

**Activities:** As per Master Title MANAGER.

**Occupations:**

- 0103-0701 Production Manager (Senior Level)
- 0103-0703 Production Manager (Middle Level)
- 0103-0705 Production Manager (Lower Level)

**0103-09 SUPPLY AND DISTRIBUTION MANAGERS**

This unit group covers occupations concerned with overall management of the purchasing and/or distribution activities of industrial, commercial or other organisations, including public and private sector.

**Entry Requirements:** A degree/diploma/para-professional certificate in a relevant discipline such as science, engineering, accounting, commerce or economics, often supplemented by a higher degree or additional training in management or a related area, and/or 5-10 years' experience, including participation in specific internal, or professional association training courses.

**Activities:** As per Master Title MANAGER.

**Occupations:**

- 0103-0901 Supply and Distribution Manager (Senior Level)
- 0103-0903 Supply and Distribution Manager (Middle Level)
- 0103-0905 Supply and Distribution Manager (Lower Level)

**0103-11 PERSONNEL AND INDUSTRIAL RELATIONS MANAGERS**

This unit group covers occupations concerned with overall management of the personnel and industrial relations activities of industrial, commercial, financial or other organisations, including public and private sector.

**Entry Requirements:** A degree/diploma/para-professional certificate in a relevant discipline, such as behavioural science, economics, industrial relations or commerce, often supplemented by a higher degree, or additional training in management or a related area, plus 5-10 years' experience.

**Activities:** As per Master Title MANAGER.

**Occupations:**

- 0103-1101 Personnel and Industrial Relations Manager (Senior Level)
- 0103-1103 Personnel and Industrial Relations Manager (Middle Level)
- 0103-1105 Personnel and Industrial Relations Manager (Lower Level)

**0103-13 DATA PROCESSING MANAGERS**

This unit group covers occupations concerned with management of the overall electronic data processing activities of industrial, commercial, financial or other organisations, including public and private sector.

**Entry Requirements:** A degree/diploma in a relevant discipline, such as accounting, commerce, computer studies, or information science, often supplemented by a higher degree or additional training in management or a related area, plus 5-10 years' experience.

**Activities:** As per Master Title MANAGER.

**Occupations:**

- 0103-1301 Electronic Data Processing Manager (Senior Level)
- 0103-1303 Electronic Data Processing Manager (Middle Level)
- 0103-1305 Electronic Data Processing Manager (Lower Level)

**0103-15 ENGINEERING MANAGERS**

This unit group covers occupations concerned with overall management of civil, mechanical, electrical, chemical, structural, mining, or other engineering activities of industrial, mining or other organisations, including public and private

sector.

**Entry Requirements:** A diploma/degree in a relevant engineering discipline, often supplemented by a higher degree or additional training in management or a related area, plus 5-10 years' experience.

**Activities:** As per Master Title MANAGER.

**Occupations:**

- 0103-1501 Engineering Manager (Senior Level)
- 0103-1503 Engineering Manager (Middle Level)
- 0103-1505 Engineering Manager (Lower Level)

**0103-17 RESEARCH MANAGERS**

This unit group covers occupations concerned with overall management of the scientific research, and development activities of industrial, commercial or other organisations, including public and private sector.

**Entry Requirements:** A degree/diploma in a relevant field of science, often supplemented by a higher degree or additional training in management or a related area, plus 5-10 years' experience.

**Activities:** As per Master Title MANAGER.

**Occupations:**

- 0103-1701 Science Manager (Senior Level)
- 0103-1703 Science Manager (Middle Level)

0103-1705 Science Manager (Lower Level)

**0103-19 POLICY ADVISORY MANAGERS UNIQUE TO GOVERNMENT**

This unit group covers occupations concerned with overall management and policy advisory activities unique to government.

**Entry Requirements:** Normally at least 10 years' experience, often supplemented by a degree/diploma in a discipline such as economics, accounting, engineering, science, law and medicine, and, in some cases, a higher degree, or additional training in management or a related area.

**Activities:** As per Master Titles GENERAL MANAGER and MANAGER.

**Occupations:**

- 0103-1901 Government Policy Adviser (Senior Level)
- 0103-1903 Government Policy Adviser (Middle Level)
- 0103-1905 Government Policy Adviser (Lower Level)

**0103-99 OTHER MANAGEMENT OCCUPATIONS**

This unit group covers occupations not elsewhere classified concerned with overall management of various activities of industrial, commercial or other business organisations, including semi-government authorities.

**Activities:** As per Master Title MANAGER.

## MINOR GROUP 0105 SUPERVISORS/FOREMEN/WOMEN

This minor group contains occupations concerned with supervising and co-ordinating the activities of other workers engaged in one or more occupations. Workers in these occupations perform duties as described under the Master Title SUPERVISOR/FOREMAN/WOMAN. Persons in these occupations will normally have qualifications, at least similar to those of the workers being supervised, together with experience in some or all of the tasks which they are supervising. Supervisors are classified, into unit groups which reflect the type of work supervised and corresponds to subject matter knowledge acquired by supervisors (skill specialisation).

Occupations in this minor group are classified into the following unit groups:

- 0105-01 SUPERVISORS, PARA-PROFESSIONAL WORKERS
- 0105-03 SUPERVISORS, CLERICAL WORKERS
- 0105-05 SUPERVISORS, SALES WORKERS
- 0105-07 SUPERVISORS, PROTECTIVE AND INVESTIGATIVE SERVICE WORKERS
- 0105-09 SUPERVISORS, OTHER SERVICE WORKERS
- 0105-11 SUPERVISORS, TRADESPERSONS AND APPRENTICES
- 0105-13 SUPERVISORS, PLANT OPERATORS
- 0105-15 SUPERVISORS, PROCESS WORKERS
- 0105-17 SUPERVISORS, BASIC MANUAL WORKERS

**0105-01 SUPERVISORS, PARA-PROFESSIONAL WORKERS**

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in various technical and other para-professional occupations.

**Entry Requirements:** Nursing Supervisors and Educators require a basic nursing qualification or diploma in nursing from a CAE plus 2-5 years' experience and, in some cases, post-basic qualifications, with an emphasis on nursing

administration or education; other supervisors of para-professional workers require a para-professional certificate in the appropriate area, plus experience ranging from 2-10 years.

**Activities:** As per Master Title SUPERVISOR/FOREMAN/WOMAN.

**Occupations:**

- 0105-0101 Supervisor, Radio and Telegraph Operators
- 0105-0103 Supervisor, Motion Picture Projectionists

0105-0105	Supervisor, Radio and TV Broadcasting Equipment Operators
0105-0107	Lighting Supervisor
0105-0109	Supervisor, Sound Recording and Reproduction Equipment Operators
0105-0111	Foreman/woman, Photographic Processing Occupations
0105-0113	Nurse Educator
0105-0115	Nursing Supervisor
0105-0117	Marine Engineer Superintendent
0105-0119	Marine Superintendent (Deck)

#### 0105-03 SUPERVISORS, CLERICAL WORKERS

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in stenographic and typing occupations, book-keeping, EDP equipment operating and other clerical tasks.

**Entry Requirements:** Year 10-12 and 2-5 years', in some cases up to 10 years', experience; in some cases a para-professional certificate is required.

**Activities:** As per Master Title SUPERVISOR/FOREMAN/WOMAN.

##### Occupations:

0105-0301	Supervisor, Stenographers
0105-0303	Supervisor, Typists
0105-0305	Supervisor, Bookkeepers and Accounting Clerks
0105-0307	Supervisor, Bank Tellers and Clerks
0105-0309	Supervisor, Insurance Clerks
0105-0311	Supervisor, Statistical Clerks
0105-0313	Supervisor, Electronic Data Processing Equipment Operators
0105-0315	Supervisor, Office Business Machine Operators
0105-0317	Supervisor, Production and Scheduling Clerks
0105-0319	Supervisor, Shipping, Transportation and Receiving Clerks
0105-0321	Foreman/woman, Stores and Packaging Occupations
0105-0323	Supervisor, Library and File Clerks
0105-0325	Supervisor, Correspondence Clerks and Related Occupations
0105-0327	Supervisor, Telephonists
0105-0329	Supervisor, Postal
0105-0331	Supervisor, Collection Clerks
0105-0333	Station Master/Mistress, Railway
0105-0335	Station Officer, Railway
0105-0399	Supervisors, Clerical Workers, nec

#### 0105-05 SUPERVISORS, SALES WORKERS

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in retailing and wholesaling goods and services.

**Entry Requirements:** Year 10-12 plus 5-10 years' experience. Supervisors of insurance salesmen and real estate agents require a para-professional certificate.

**Activities:** As per Master Title SUPERVISOR/FOREMAN/WOMAN.

##### Occupations:

0105-0501	Buyer (General)
0105-0503	District Sales Manager (Insurance)
0105-0505	Field Supervisor (Insurance)
0105-0507	Manager, Real Estate Agents
0105-0509	Sales Supervisor (Retail/Wholesale Establishment)
0105-0511	Supervisor Manager (Retail/Wholesale Store)
0105-0599	Supervisors, Sales Workers, nec

#### 0105-07 SUPERVISORS, PROTECTIVE AND INVESTIGATIVE SERVICE WORKERS

This unit group covers occupations concerned with supervising and co-ordinating the activities of general police officers, members of a fire brigade, workers engaged in guarding persons and property, inspectors and regulating officers.

**Entry Requirements:** Supervisors of police require a basic vocational certificate; other supervisory occupations require Years 10-12 general education. In most cases, considerable experience, from 8-25 years, is required; in other instances 1-5 years' experience is required.

**Activities:** As per Master Title SUPERVISOR/FOREMAN/WOMAN.

##### Occupations:

0105-0701	Commissioned Police Officer
0105-0703	Officer-in-Charge, Police Station
0105-0705	Officer-in-Charge, Police Special Section
0105-0707	Officer-in-Charge, Police Training Institution
0105-0709	Chief Officer, Fire Brigade
0105-0711	Deputy Chief Fire Officer
0105-0713	Shift Supervisor, Fire Brigade
0105-0715	Fire Prevention Officer
0105-0717	Chief Officer, Prison
0105-0719	Security Officer, Manager/Supervisor
0105-0721	Supervisor, Inspectors and Regulating Officers

#### 0105-09 SUPERVISORS, OTHER SERVICE WORKERS

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers engaged in providing personal services, services in accommodation, and services in food and beverage preparation and serving.

**Entry Requirements:** In some cases an associate diploma qualification; in other cases 1-10 years' experience.

**Activities:** As per Master Title SUPERVISOR/FOREMAN/WOMAN.

##### Occupations:

0105-0901	Managing Supervisor, Dining Establishment
0105-0903	Caterer
0105-0905	Managing Supervisor, Fast Food Outlet
0105-0907	Food Supervisor
0105-0909	Supervisor, Bar Attendants
0105-0911	Building Supervisor
0105-0913	Managing Supervisor, Hotel/Motel/Lodging House
0105-0915	Executive Housekeeper
0105-0917	Hotel Concierge
0105-0919	Managing Supervisor, Laundering and Dry-Cleaning Establishment
0105-0921	Managing Supervisor, Beauty Establishment
0105-0923	Managing Supervisor, Massage Establishment
0105-0925	Managing Supervisor, Hairdressing Establishment

#### 0105-11 SUPERVISORS, TRADESPERSONS AND APPRENTICES

This unit group covers occupations concerned with supervising and co-ordinating the activities of tradespersons, non-trades skilled workers, apprentices and trainees.

**Entry Requirements:** Supervisors of tradespersons and apprentices require a trade qualification; supervisors of non-trades skilled workers, require a para-professional or basic vocational certificate. In all cases considerable work experience from 2-15 years is required.

**Activities:** As per Master Title SUPERVISOR/FOREMAN/WOMAN.

**Occupations:**

- 0105-1101 Foreman/woman, Metal Tradespersons and Apprentices
- 0105-1103 Foreman/woman, Building Tradespersons and Apprentices
- 0105-1105 Foreman/woman, Electrical Tradespersons and Apprentices
- 0105-1107 Foreman/woman, Food Tradespersons and Apprentices
- 0105-1109 Foreman/woman, Printing Tradespersons and Apprentices
- 0105-1111 Foreman/woman, Clothing/Textile Tradespersons and Apprentices
- 0105-1113 Foreman/woman, Other Tradespersons and Apprentices

**0105-13 SUPERVISORS, PLANT OPERATORS**

This unit group covers occupations concerned with supervising and co-ordinating the activities of workers who operate mobile and heavy stationary plant.

**Entry Requirements:** In some cases a para-professional or basic vocational certificate and generally, from 5-15 years' experience; in other cases Year 9-12 and from 1-12 years' experience.

**Activities:** As per Master Title SUPERVISOR/FOREMAN/WOMAN.

**Occupations:**

- 0105-1301 Supervisor, Road and Rail Transport Drivers
- 0105-1303 Foreman/woman, Other Mobile Equipment Operators
- 0105-1305 Foreman/woman, Continuous Plant Operating
- 0105-1307 Foreman/woman, Hoisting and Loading Equipment Operators
- 0105-1309 Foreman/woman, Other Stationary Equipment Operators
- 0105-1311 Foreman/woman, Other Mining Occupations
- 0105-1313 System Control Operator

**0105-15 SUPERVISORS, PROCESS WORKERS**

This unit group covers occupations concerned with supervising and co-ordinating the activities of machine operators and hand assemblers engaged in the processing of raw materials and foodstuffs and the manufacture of finished products, as well as the activities of packers and inspectors of these products.

**Entry Requirements:** In some cases a para-professional or basic vocational certificate plus 5 years' experience; in other cases, Year 9-11 and experience ranging from 2-10 years.

**Activities:** As per Master Title SUPERVISOR/FOREMAN/WOMAN.

**Occupations:**

- 0105-1501 Foreman/woman, Mineral Ore Treating Occupations
- 0105-1503 Foreman/woman, Metal Processing and Fabricating Occupations
- 0105-1505 Foreman/woman, Chemicals and Petroleum Process Occupations
- 0105-1507 Foreman/woman, Rubber Production Occupations
- 0105-1509 Foreman/woman, Plastics Production Occupations
- 0105-1511 Foreman/woman, Wood and Paper Processing and Fabricating Occupations
- 0105-1513 Foreman/woman, Food and Beverage Processing Occupations
- 0105-1515 Foreman/woman, Clay, Glass and Stone Processing and Fabricating Occupations
- 0105-1517 Foreman/woman, Textile Product Occupations
- 0105-1519 Foreman/woman, Packaging
- 0105-1521 Supervisors, Testing and Inspecting

**0105-17 SUPERVISORS, BASIC MANUAL WORKERS**

This unit group covers occupations concerned with supervising and co-ordinating the activities of cleaners, labourers, factory hands and other basic manual workers.

**Entry Requirements:** Year 9-12 and up to 5 years' experience.

**Activities:** As per Master Title SUPERVISOR/FOREMAN/WOMAN.

**Occupations:**

- 0105-1701 Supervisor, Mine Ventilation
- 0105-1703 Foreman/woman, Freight Loading/Unloading Occupations
- 0105-1705 Boatswain
- 0105-1707 Forest Overseer
- 0105-1709 Foreman/woman, Logging
- 0105-1711 Supervisor, Industrial Cleaners
- 0105-1799 Supervisors, Basic Manual Workers, nec

## **MAJOR GROUP 02**

### **PROFESSIONAL OCCUPATIONS**

This major group contains occupations which generally require a minimum of a 3 year degree or diploma following 12 years of general education for entry. Occupations for which degree courses are available but for which extensive informal preparation is also a route of entry, such as artists, are included. Occupations for which there is a wide range of alternative requirements of a formal nature are generally excluded. They are located in the para-professional major group. Minor groups are distinguished from each other on the basis of broadly defined functions. Unit groups are distinguished from each other on the basis of subject matter areas or disciplines.

Occupations in this major group are classified into the following minor groups:

- 0201 NATURAL SCIENTISTS
- 0203 BUILDING PROFESSIONALS AND ENGINEERS
- 0205 HEALTH DIAGNOSIS AND TREATMENT  
PRACTITIONERS
- 0207 SCHOOL TEACHERS
- 0209 OTHER TEACHERS AND INSTRUCTORS
- 0211 SOCIAL PROFESSIONALS
- 0213 BUSINESS PROFESSIONALS
- 0215 ARTISTS AND RELATED OCCUPATIONS
- 0217 OTHER PROFESSIONAL OCCUPATIONS

## MINOR GROUP 0201 NATURAL SCIENTISTS

This minor group contains professional occupations concerned with research, teaching, and industrial, commercial and agricultural applications of the natural sciences. Occupations in this group require a degree or diploma for entry. Many may require post graduate qualifications or higher degrees, for example in research or teaching.

Occupations in this minor group are classified into the following unit groups:

- 0201-01 CHEMISTS
- 0201-03 EARTH SCIENTISTS
- 0201-05 PHYSICISTS
- 0201-07 AGRICULTURAL SCIENTISTS
- 0201-09 FORESTERS
- 0201-11 BIOLOGICAL SCIENTISTS
- 0201-13 CLINICAL SCIENTISTS
- 0201-99 OTHER NATURAL SCIENTISTS

### 0201-01 CHEMISTS

This unit group covers occupations concerned with conducting pure research to extend knowledge in chemistry, applied research to develop new or improved materials and substances for commercial purposes, and the practical application of such research.

**Entry Requirements:** A degree/diploma in science with major studies in chemistry. Occupations involving research normally require a higher degree.

**Activities:** Conducting pure research to extend knowledge in chemistry; conducting applied research to develop new or improved materials and substances for commercial purposes; synthesising compounds; performing qualitative and quantitative analyses and experiments in organic (including pharmaceutical), inorganic (including nuclear) and physical chemistry; developing analytical methodology and techniques; analysing raw materials and finished products to determine quality; monitoring and controlling processes in chemical industry; maintaining contact with customers before or after production to provide technical service; and preparing laboratory reports and compiling data for technical reports.

#### Occupations:

- 0201-0101 Chemist (General)
- 0201-0103 Research Chemist
- 0201-0105 Agricultural Chemist
- 0201-0107 Analytical Chemist
- 0201-0109 Food Chemist

#### Related Occupations:

- 0205-07 Pharmacists (Unit Group)

### 0201-03 EARTH SCIENTISTS

This unit group covers occupations concerned with investigating the nature and history of the earth's crust, atmosphere and hydrosphere, and the composition, structure and physical properties of the mantle and core, and with practical applications of this knowledge in such fields as mineral exploration and exploitation, weather forecasting and water conservation.

**Entry Requirements:** A degree/diploma in science with major studies in earth science and related subjects or in physics and mathematics in the case of meteorologists. Occupations involving research normally require a higher degree.

**Activities:** Studying the stratigraphic arrangement of the earth, the physical nature of the atmosphere and hydrosphere, and the distribution and circulation of water; identifying and classifying rocks, minerals and fossils; locating natural resources such as coal, oil, natural gas, metals, industrial materials and water on land and beneath the sea; analysing and predicting the state of the atmosphere; and compiling data and preparing technical reports.

#### Occupations:

- 0201-0301 Geologist
- 0201-0303 Geophysicist
- 0201-0305 Meteorologist
- 0201-0307 Physical Geographer

### 0201-05 PHYSICISTS

This unit group covers occupations concerned with conducting pure research to extend knowledge in physics and applied research related to the scientific and commercial utilisation of physical phenomena.

**Entry Requirements:** A higher degree in science with major studies in physics and related subjects.

**Activities:** Analysing, in mathematical terms, and developing hypotheses from the results of experiments involving heat, light, sound, electricity and magnetism, molecules, atoms, nuclei and other physical phenomena; predicting results of experiments designed to detect and measure previously unobserved physical phenomena; using research data to formulate or substantiate new theories, concepts or laws; studying bodies at rest and in motion; and conducting experiments to discover the fundamental particles of matter, and observing the forms of energy and their interaction and effect on matter.

#### Occupations:

- 0201-0501 Physicist (General)
- 0201-0503 Astronomer
- 0201-0505 Atomic Physicist
- 0201-0507 Nuclear Physicist
- 0201-0509 Solid-State Physicist

#### Related Occupations:

- 0201-1107 Biophysicist
- 0201-1301 Medical Physicist

**0201-07 AGRICULTURAL SCIENTISTS**

This unit group covers occupations concerned with studying the growth, genetics and viability of crop and pasture plants and agricultural livestock, and the nature and composition of soils, and with applying this knowledge to the development, propagation and conservation of economically useful plants and animals.

**Entry Requirements:** A degree/diploma in agriculture plus 5 years' experience in some cases. Occupations involving research normally require a higher degree.

**Activities:** Studying the location, characteristics and composition of soils; supervising controlled breeding and selection experiments on plants and animals to secure higher quality and yield; developing new methods and techniques for the processing and storage of agricultural products; and advising on the operation and economics of farms.

**Occupations:**

0201-0701	Agricultural Extension Officer
0201-0703	Agricultural Scientist
0201-0705	Animal Scientist
0201-0707	Farm Consultant
0201-0709	Plant Scientist
0201-0711	Soil Scientist
0201-0713	Oenologist

**Related Occupations:**

08	Skilled Agricultural Occupations (Major Group)
0201-11	Biological Scientists (Unit Group)
0201-09	Foresters (Unit Group)

**0201-09 FORESTERS**

This unit group covers occupations concerned with studying, planning, establishing, developing and managing forest lands and resources for economic, recreational and environmental purposes.

**Entry Requirements:** A degree in forestry or a related area. Occupations involving research may require a higher degree.

**Activities:** Mapping forest areas; estimating standing timber; managing timber harvesting; planning cutting programs; directing suppression of forest fires and supervising fire-prevention programs; planning and directing construction and maintenance of access roads and other forest services; and planning and carrying out projects to control flooding, soil erosion, tree diseases and insect pests in forests.

**Occupations:**

0201-0901	Forester
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**0201-11 BIOLOGICAL SCIENTISTS**

This unit group covers occupations concerned with the study of living organisms and vital processes, and of their relationships to each other and to their environment, and with the practical application of the knowledge obtained.

**Entry Requirements:** A degree with major studies in one or more of the biological sciences and related subjects. Occupations involving research normally require a higher degree.

**Activities:** Studying origin, development, growth, reproduction structure, function, distribution and other life phenomena of a single species or community of species; planning and conducting laboratory studies of animals and plants including

micro-organisms; making field trips to study species in their natural habitats; studying life processes at the cellular and sub-cellular levels; preserving specimens and preparing collections for the study of development, disease etc. studying the physical and chemical characteristics of living organisms and of the molecules which comprise them; investigating the relationships between various life forms, and between them and their environment; undertaking technical advisory and related work; preparing and publishing reports, articles and other studies.

**Occupations:**

0201-1101	Anatomist
0201-1103	Aquatic Biologist
0201-1105	Biochemist
0201-1107	Biophysicist
0201-1109	Botanist
0201-1111	Ecologist
0201-1113	Entomologist
0201-1115	Geneticist
0201-1117	Microbiologist
0201-1119	Parasitologist
0201-1121	Pharmacologist
0201-1123	Physiologist
0201-1125	Zoologist

**Related Occupations:**

0201-13	Clinical Scientists (Unit Group)
0201-07	Agricultural Scientists (Unit Group)

**0201-13 CLINICAL SCIENTISTS**

This unit group covers occupations in which scientific techniques are applied to assist in the diagnosis and treatment of diseases and disorders of the human body.

**Entry Requirements:** A degree/post-graduate qualification with a major in a relevant medical discipline.

**Activities:** Performing laboratory investigations into the nature and characteristics of bacteria, viruses, algae, fungi and other micro-organisms and into human bodily reactions to them; analysing chemical changes occurring in the human body; preparing sections of body for microscopic examination; studying human cell samples to detect abnormalities that suggest disease; conducting medical and physical laboratory tests, procedures, experiments and analyses for diagnosis, treatment and prevention of disease.

**Occupations:**

0201-1301	Clinical Physical Scientist
0201-1303	Medical Laboratory Scientist
0201-1305	Pathologist
0201-1399	Clinical Scientists, nec

**Related Occupations:**

0201-11	Biological Scientists (Unit Group)
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**0201-99 OTHER NATURAL SCIENTISTS**

This unit group covers occupations concerned with conducting research in areas of natural science not included elsewhere in Minor Group 0201.

**Entry Requirements:** A degree/diploma in science.

**Occupations:**

0201-9901	Environmental Scientist
0201-9903	Materials Scientist
0201-9999	Other Natural Scientists, nec

**MINOR GROUP 0203****BUILDING PROFESSIONALS AND ENGINEERS**

This minor group contains professional occupations concerned with research, development, design and industrial production and operation in the fields of engineering, architecture, surveying and quantity

surveying. Entry requirements are a degree or diploma in a relevant field with advanced degrees or post-graduate qualifications required for certain occupations especially in research.

Occupations in this minor group are classified into the following unit groups:

- 0203-01 ARCHITECTS
- 0203-03 BUILDING OFFICERS AND QUANTITY SURVEYORS
- 0203-05 CARTOGRAPHERS AND SURVEYORS
- 0203-07 CHEMICAL ENGINEERS
- 0203-09 CIVIL ENGINEERS
- 0203-11 ELECTRICAL ENGINEERS
- 0203-13 MECHANICAL ENGINEERS
- 0203-15 MINING ENGINEERS
- 0203-17 METALLURGISTS
- 0203-19 OTHER ENGINEERS

#### 0203-01 ARCHITECTS

This unit group covers occupations concerned with the design and supervision of construction, maintenance and refurbishment of buildings and related structures and with the aesthetic landscaping of parks, road developments and other projects.

**Entry Requirements:** A degree in architecture, landscape architecture or landscape design.

**Activities:** Consulting with clients and others to determine type and scope of project; providing information on design styles, materials, costs and completion times; preparing sketches, designing drawings, specifications and contract documents, supervising project construction work; inspecting and verifying for payment the work of contractors and subcontractors; advising on problems related to building construction and maintenance, site location and environmental impacts.

##### Occupations:

- 0203-0101 Architect
- 0203-0103 Landscape Architect

#### 0203-03 BUILDING OFFICERS AND QUANTITY SURVEYORS

This unit group covers occupations concerned with the construction and refurbishment of buildings and related structures.

**Entry Requirements:** A degree/diploma in building or similar discipline with an emphasis on the management, technology and/or economics of building.

**Activities:** Studying and interpreting architectural and engineering drawings and specifications; preparing cost estimates, bills of quantities, and tender and contract documents; planning, organising and supervising construction methods and procedures, and the purchase of materials and equipment; managing site labour and co-ordinating sub-contractors; maintaining budgetary control during the design and construction stages.

##### Occupations:

- 0203-0301 Building Officer
- 0203-0303 Quantity Surveyor

#### 0203-05 CARTOGRAPHERS AND SURVEYORS

This unit group covers occupations concerned with the planning, design, organisation and supervision of surveying and mapping systems and with the design, preparation and revision of maps.

**Entry Requirements:** A degree/diploma in, or with major studies in, cartography or surveying.

**Activities:** Undertaking field surveys of land and marine surfaces and of underground works; recording, sketching and computing survey data; preparing or supervising the preparation of plans, contour and sectional drawings, maps and charts; interpreting data from field surveys, aerial photographs and satellite imagery in the preparation of cadastral, topographic and thematic maps.

##### Occupations:

- 0203-0501 Cartographer
- 0203-0503 Surveyor

#### 0203-07 CHEMICAL ENGINEERS

This unit group covers occupations concerned with the application of chemistry and other sciences together with engineering technology, to manufacturing and chemical process operations etc.

**Entry Requirements:** A degree in chemical engineering. Occupations involving research may require a higher degree.

**Activities:** Research into, and design and development of, manufacturing processes in which chemical and physical changes occur; supervision of the construction, installation, operation and maintenance of chemical plant equipment; preparing process flow diagrams and selecting unit process equipment; studying pollution-control problems; preparing reports and detailed costings on proposed or current processes or operations; supervising and co-ordinating the work of technical officers, technicians, operators, and trades and other workers.

##### Occupations:

- 0203-0701 Chemical Engineer (Design)
- 0203-0703 Chemical Engineer (Production)
- 0203-0705 Chemical Engineer (Research)

#### 0203-09 CIVIL ENGINEERS

This unit group covers occupations concerned with planning, design and supervision of the construction, operation and maintenance of roads, bridges, dams, ports, docks, building structures and other facilities for public, industrial or commercial use, and with research associated with civil engineering questions.

**Entry Requirements:** A degree in civil engineering. Occupations involving research may require a higher degree.

**Activities:** Undertaking research and investigations into materials, processes and systems concerned with structural, hydraulic, irrigation and drainage, harbour, railway, highway, pipeline, tunnel and other aspects of civil engineering; planning and designing civil engineering structures, schemes and systems; supervising and co-ordinating the construction, operation and maintenance of civil engineering facilities and

systems; studying and making recommendations on the environmental implications of such projects.

**Occupations:**

0203-0901	Civil Engineer (Construction)
0203-0903	Civil Engineer (Design)
0203-0905	Civil Engineer (Operations)
0203-0907	Civil Engineer (Research)

**0203-11 ELECTRICAL ENGINEERS**

This unit group covers occupations concerned with research, design, manufacture, construction, operation and maintenance of electrical and electronic equipment, machines, systems and components.

**Entry Requirements:** A degree in electrical, electronic or communications engineering. Occupations involving research may require a higher degree.

**Activities:** Undertaking research and investigations into electrical and electronic systems, equipment and components; planning and designing the manufacture and installation of electrical and electronic equipment; supervising the manufacture, operation and maintenance of electrical, electronic and communications installations and systems; preparing and evaluating specifications, tenders and contracts; evaluating, interpreting and writing reports on technical, safety, ergonomic and environment protection matters, often in association with other technical workers; engaging in engineering sales and associated commercial activities.

**Occupations:**

0203-1101	Electrical Engineer (Research)
0203-1103	Communications Engineer
0203-1105	Electrical Power Engineer
0203-1107	Electronic Engineer
0203-1199	Electrical Engineers, nec

**0203-13 MECHANICAL ENGINEERS**

This unit group covers occupations concerned with the application of scientific and engineering principles to the development, design, construction, operation, maintenance and repair of machines that produce, transmit or consume power or energy and the tools with which machinery and equipment are made, and the evaluation of installed plant and processes related to machines.

**Entry Requirements:** A degree in mechanical or a related branch of engineering. Occupations involving research may require a higher degree.

**Activities:** Undertaking research and investigations into the utilisation of energy, machinery, equipment and materials; designing mechanisms, machines, mechanical installations and plants; conducting feasibility studies and evaluating installed machines, plant, processes and products; supervising construction, modification, and final testing of prototypes, products or pilot plants; organising and supervising operation and maintenance of machines and mechanical installations; studying and making recommendations on performance, safety and environmental standards of such projects.

**Occupations:**

0203-1301	Mechanical Engineer (Research)
0203-1303	Mechanical Engineer (Construction)
0203-1305	Mechanical Engineer (Design)
0203-1307	Mechanical Engineer (Operations)

0203-1309 Mechanical Engineer (Production)

**0203-15 MINING ENGINEERS**

This unit group covers occupations concerned with the application of engineering principles to the planning, design, development, operation and maintenance of mines.

**Entry Requirements:** A degree/diploma in mining or a related branch of engineering; in some cases a certificate in mine management is required.

**Activities:** Surveying mineral deposits to decide viability and method of extraction; planning location and construction of mine; preparing and administering tenders and contracts; designing, selecting and supervising the operation and maintenance of materials handling and ancillary equipment, machinery and systems.

**Occupations:**

0203-1501	Mining Engineer
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**0203-17 METALLURGISTS**

This unit group covers occupations concerned with studying the properties of metals, developing alloys, evaluating technical applications and advising on their uses in industry.

**Entry Requirements:** A degree/diploma in science/engineering with major studies in metallurgy.

**Activities:** Investigating the properties of metals and alloys, planning and carrying out experimental laboratory production of alloys having specified characteristics or potential uses; supervising technical aspects of the production and utilisation of metals; testing samples of products for defects; advising on the manufacture, use, characteristics, application and recycling of metallic materials.

**Occupations:**

0203-1701	Extractive Metallurgist
0203-1703	Physical Metallurgist

**0203-19 OTHER ENGINEERS**

This unit group covers occupations concerned with research, design, construction, manufacture, operation and maintenance of machines, processes or services depending on principles of engineering in branches not elsewhere classified in Minor Group 0203.

**Entry Requirements:** A degree in a relevant branch of engineering. Occupations involving research may require a higher degree.

**Activities:** Engineering work related to the development and use of agricultural land, buildings, machinery and equipment; research, design, manufacturing and maintenance work related to aircraft; design, construction and repair of marine vessels and other floating structures; and investigating the engineering aspects of materials other than metals.

**Occupations:**

0203-1901	Aeronautical Engineer
0203-1903	Agricultural Engineer
0203-1905	Naval Architect
0203-1907	Materials Engineer
0203-1999	Other Engineers, nec

**Related Occupations:**

0307-9907	Marine Engineer Officer
0201-1301	Biomedical Engineer

## MINOR GROUP 0205

### HEALTH DIAGNOSIS AND TREATMENT PRACTITIONERS

This minor group contains professional occupations concerned with diagnosing and treating diseases in humans and other animals. Entry requirements are a degree in a relevant area. Post-graduate qualifications are required for specialist occupations.

Occupations in this minor group are classified into the following unit groups:

- 0205-01 GENERAL MEDICAL PRACTITIONERS
- 0205-03 SPECIALIST MEDICAL PRACTITIONERS
- 0205-05 DENTAL PRACTITIONERS
- 0205-07 PHARMACISTS
- 0205-09 OCCUPATIONAL THERAPISTS
- 0205-11 OPTOMETRISTS
- 0205-13 PHYSIOTHERAPISTS
- 0205-15 SPEECH PATHOLOGISTS
- 0205-17 CHIROPRACTORS AND OSTEOPATHS
- 0205-19 PODIATRISTS
- 0205-21 VETERINARIANS
- 0205-99 OTHER HEALTH DIAGNOSIS AND TREATMENT PRACTITIONERS

#### 0205-01 GENERAL MEDICAL PRACTITIONERS

This unit group covers occupations concerned with preventing, diagnosing and treating human illnesses.

**Entry Requirements:** Degrees in medicine and surgery and clinical experience for a prescribed period in a hospital.

**Activities:** Conducting medical examinations; making diagnoses; prescribing and giving treatment for diseases and disorders of the human body and mind and for injuries to the human body; applying preventive medicine techniques; referring patients to physicians, surgeons or other specialists.

##### Occupations:

- 0205-0101 Medical Practitioner, General

#### 0205-03 SPECIALIST MEDICAL PRACTITIONERS

This unit group covers occupations concerned with specialist medical practice.

**Entry Requirements:** Post-graduate qualifications in a relevant specialisation of medicine and/or surgery, and clinical experience for a prescribed period.

**Activities:** Providing diagnostic treatment and preventive medical services; performing surgical operations in the treatment of injuries, diseases and disorders of the human body; performing related tasks.

##### Occupations:

- 0205-0301 Anaesthetist
- 0205-0303 Cardiologist
- 0205-0305 Obstetrician and Gynaecologist
- 0205-0307 Ophthalmologist
- 0205-0309 Orthopaedic Specialist
- 0205-0311 Psychiatrist
- 0205-0313 Radiologist
- 0205-0315 Paediatrician
- 0205-0317 Thoracic Specialist
- 0205-0319 Dermatologist
- 0205-0321 Gastroenterologist
- 0205-0323 Otorhinolaryngologist
- 0205-0325 Urologist
- 0205-0399 Specialist Medical Practitioners, nec

#### 0205-05 DENTAL PRACTITIONERS

This unit group covers occupations concerned with diagnosing, treating and preventing ailments or abnormalities of gums, teeth and related structures.

**Entry Requirements:** A degree in dentistry; occupations in a specialist field of dental practice normally require

post-graduate qualifications and clinical experience for a prescribed period.

**Activities:** Examining teeth, gums and other tissues; diagnosing and treating conditions; filling cavities, replacing crowns and performing oral surgery; constructing or specifying dentures; administering local or general anaesthetics; referring patients to medical or dental specialists.

##### Occupations:

- 0205-0501 Dentist
- 0205-0503 Dental Specialist

#### 0205-07 PHARMACISTS

This unit group covers occupations concerned with compounding and dispensing pharmaceuticals.

**Entry Requirements:** A degree/post-graduate qualification in pharmacy, together with a period of approved experience.

**Activities:** Filling prescriptions; developing new medical substances; analysing, testing and distributing drugs and related supplies; collating data on reactions to drugs and medicaments; monitoring dosage and checking for incompatibilities.

##### Occupations:

- 0205-0701 Hospital Pharmacist
- 0205-0703 Industrial Pharmacist
- 0205-0705 Retail Pharmacist
- 0205-0799 Pharmacists, nec

##### Related Occupations:

- 0201-1121 Pharmacologist

#### 0205-09 OCCUPATIONAL THERAPISTS

This unit group covers occupations concerned with treating human disorders and disabilities using work, education and recreation for therapy.

**Entry Requirements:** A degree/diploma in occupational therapy.

**Activities:** Testing patients to assess capacities; planning and directing programs of physical and cultural activities; conducting self care training; assessing patient progress; arranging work adjustment training.

##### Occupations:

- 0205-0901 Occupational Therapist

#### 0205-11 OPTOMETRISTS

This unit group covers occupations concerned with diagnosing and treating eye defects not requiring medicine or surgery.

**Entry Requirements:** A degree/diploma in optometry.

**Activities:** Examining patients; prescribing devices to aid vision; advising patients on eye exercises, lighting etc.

**Occupations:**

0205-1101 Optometrist

**0205-13 PHYSIOTHERAPISTS**

This unit group covers occupations concerned with the planning and administration of programs of muscular treatment for human disabilities.

**Entry Requirements:** A degree/diploma in physiotherapy.

**Activities:** Testing patients to assess problems; applying mechanical, electrical, heat, light and sonic treatment to improve the function of muscles and joints; advising patients on exercise.

**Occupations:**

0205-1301 Physiotherapist

**0205-15 SPEECH PATHOLOGISTS**

This unit group covers occupations concerned with the treatment of speech language and voice disorders.

**Entry Requirements:** A degree/diploma in speech pathology.

**Activities:** Testing patients to determine the nature of problem; planning and directing remedial programs to correct stuttering and other disorders; treating children slow to speak; counselling patients and families.

**Occupations:**

0205-1501 Speech Pathologist

**0205-17 CHIROPRACTORS AND OSTEOPATHS**

This unit group covers occupations concerned with the diagnosis and treatment of mechanical disorders of the human locomotor system, especially the spine.

**Entry Requirements:** A degree/diploma in osteopathy or chiropractic.

**Activities:** Examining patients to determine the nature and extent of the disorder; correcting the disorder by the application of mechanical, electrical, heat and light treatments; prescribing corrective exercise and diet.

**Occupations:**

0205-1701 Chiropractor/Osteopath

0205-1703 Osteopath

**0205-19 PODIATRISTS**

This unit group covers occupations concerned with the diagnosis and treatment of foot disorders.

**Entry Requirements:** A diploma in podiatry.

**Activities:** Examining patients to determine the nature and extent of disorder; arranging footwear to alleviate condition; performing minor surgery to remove abnormal conditions such as corns and bunions; referring patients to medical practitioner where appropriate.

**Occupations:**

0205-1901 Podiatrist

**0205-21 VETERINARIANS**

This unit group covers occupations concerned with diagnosing, treating, controlling and preventing animal disorders and with performing other functions requiring a detailed knowledge of veterinary medicine.

**Entry Requirements:** A degree in veterinary science.

**Activities:** Advising on breeding, feeding and care of animals; operating animal hospitals; ensuring the fitness of animal products for human consumption; and raising animals for use in biological, medical and veterinary research.

**Occupations:**

0205-2101 Veterinarian

**Related Occupations:**

0201-0705 Animal Scientist

0201-1125 Veterinary Pathologist

**0205-99 OTHER HEALTH DIAGNOSIS AND TREATMENT PRACTITIONERS**

This unit group covers occupations concerned with the diagnosis and treatment of disorders not classified elsewhere in Minor Group 0205.

**Entry Requirements:** A degree/diploma or associate diploma in an appropriate area.

**Occupations:**

0205-9901 Audiologist

0205-9903 Dietitian

0205-9905 Orthoptist

0205-9907 Prosthetist/Orthotist

0205-9999 Other Health Diagnosis and Treatment Practitioners, nec

## MINOR GROUP 0207 SCHOOL TEACHERS

This minor group contains professional occupations involving teaching pre-primary, primary and secondary school children. Entry requirements are a degree in a relevant discipline and a post-graduate teaching qualification.

Occupations in this minor group are classified into the following unit groups:

0207-01 PRE-PRIMARY SCHOOL TEACHERS

0207-03 PRIMARY SCHOOL TEACHERS

0207-05 SECONDARY SCHOOL TEACHERS

0207-07 TEACHERS OF EXCEPTIONAL CHILDREN

**0207-01 PRE-PRIMARY SCHOOL TEACHERS**

This unit group covers occupations concerned with teaching children in a pre-school.

**Entry Requirements:** A diploma in teaching with special emphasis on early childhood education.

**Activities:** Introducing children to the rudiments of music, art and literature in a pre-primary centre or independent pre-school institution; and promoting the physical, mental and social development of pre-school children and their school readiness.

**Occupations:**

0207-0101 Pre-Primary School Teacher

**0207-03 PRIMARY SCHOOL TEACHERS**

This unit group covers occupations concerned with teaching young children a variety of subjects in a primary school.

**Entry Requirements:** A diploma in teaching or degree in education with special emphasis on primary education, or a degree and a graduate diploma in education.

**Activities:** Any combination of the following duties: teaching basic academic subjects and elements of social behaviour to young children at junior primary level; preparing teaching outlines for relevant courses of study; presenting subject matter to class through talks, demonstrations and audio-visual teaching aids; conducting discussions by pupils and supervising work in class; planning and organising field trips; testing and evaluating pupils for individual progress in written and oral work, and taking remedial action where necessary; maintaining order in the classroom and other areas of the school; encouraging development of pupils and dealing with social adjustment problems; discussing pupils' progress and behavioural problems with parents and suggesting remedial action; keeping attendance and class records as required; developing course curricula; assisting student primary teachers to develop their teaching skills.

**Occupations:**

0207-0301 Infant School Teacher  
 0207-0303 Primary School Teacher  
 0207-0305 Primary School Teacher, Arts and Crafts  
 0207-0307 Primary School Teacher, Music  
 0207-0309 Primary School Teacher, Physical Education  
 0207-0311 Primary School Teacher, Librarian

**0207-05 SECONDARY SCHOOL TEACHERS**

This unit group covers occupations concerned with teaching a variety of subjects at secondary school level including arts and crafts, business studies, English, foreign languages, geography, home economics, manual arts, mathematics, music, physical education and science.

**Entry Requirements:** A diploma in teaching or degree in education with special emphasis on secondary education, or a degree and a graduate diploma in education.

**Activities:** Any combination of the following duties: developing course curricula; preparing teaching outlines for courses of study, usually in two or more areas; instructing students through presentation of lesson material, discussions, workshop and laboratory sessions, and the use of audio-visual aids; assigning and correcting homework papers; preparing, administering and marking tests to evaluate students' progress

and recording results; maintaining discipline in classrooms and other school areas; participating in staff meetings, and educational conferences and workshops; performing duties such as organising or participating in special activities of student organisations; assisting students in selecting courses of study and advising them on academic and other problems; assisting student secondary teachers to develop their teaching skills; allocating subordinate teachers to classes and co-ordinating their workload; timetabling examinations and determining grading levels of examination scripts.

**Occupations:**

0207-0501 Secondary School Teacher, Arts and Crafts  
 0207-0503 Secondary School Teacher, Home Economics  
 0207-0505 Secondary School Teacher, Physical Education  
 0207-0507 Secondary School Teacher, Manual/Industrial Arts  
 0207-0509 Secondary School Teacher, Careers  
 0207-0511 Secondary School Teacher, Librarian  
 0207-0513 Secondary School Teacher, Academic Subjects  
 0207-0515 Secondary School Teacher, Music

**0207-07 TEACHERS OF EXCEPTIONAL CHILDREN**

This unit group covers occupations concerned with teaching children in special educational units at pre-schools, primary and secondary schools and in special residential and hospital schools, and with teaching children from a variety of different ethnic backgrounds.

**Entry Requirements:** Primary or secondary teaching qualifications and, in some cases, appropriate teaching experience, in addition to a post-graduate qualification in special or remedial education, or Aboriginal or multicultural education depending on nature of teaching duties; alternatively, a diploma in teaching with special emphasis on primary and special education.

**Activities:** Teaching primary or secondary school subjects to visually impaired, hearing impaired, physically handicapped, socially and emotionally handicapped and Aboriginal children, to children with particular learning difficulties and/or disabilities, and to children with different ethnic backgrounds; teaching basic academic and social skills to intellectually handicapped children; and assessing particular needs of pupils and adapting school curriculum and teaching methods to meet their requirements.

**Occupations:**

0207-0701 Remedial Teacher  
 0207-0703 Teacher of Intellectually Handicapped  
 0207-0705 Teacher of Physically Handicapped  
 0207-0799 Teachers of Exceptional Children, nec

## MINOR GROUP 0209 OTHER TEACHERS AND INSTRUCTORS

This minor group contains professional occupations concerned with teaching in Universities, Colleges of Advanced Education, TAFE Colleges, and in extra systemic situations. Entry requirements vary from no formal qualifications to post-graduate qualifications.

Occupations in this minor group are classified into the following unit groups:

0209-01 ACADEMIC TEACHERS, UNIVERSITY AND CAE  
 0209-03 TAFE TEACHERS (TRADE)  
 0209-05 TAFE TEACHERS (NON-TRADE)  
 0209-07 EXTRA SYSTEMIC TEACHERS AND INSTRUCTORS

**0209-01 ACADEMIC TEACHERS, UNIVERSITY AND CAE**

This unit group covers occupations concerned with teaching students at universities and colleges of advanced education.

**Entry Requirements:** A degree or higher degree in an appropriate academic discipline.

**Activities:** As per Master Title LECTURER/TUTOR (HIGHER EDUCATION)

**Occupations:**

0209-0101	Lecturer/Tutor, Business Studies (Higher Education)
0209-0103	Lecturer/Tutor, Secretarial Studies (Higher Education)
0209-0104	Lecturer/Tutor, Agricultural Sciences (Higher Education)
0209-0105	Lecturer/Tutor, Music (Higher Education)
0209-0106	Lecturer/Tutor, Religious Studies (Higher Education)
0209-0107	Lecturer/Tutor, Biological Sciences (Higher Education)
0209-0109	Lecturer/Tutor, Chemistry (Higher Education)
0209-0111	Lecturer/Tutor, Earth Sciences (Higher Education)
0209-0113	Lecturer/Tutor, Food Sciences and Technology (Higher Education)
0209-0115	Lecturer/Tutor, Materials Science (Higher Education)
0209-0117	Lecturer/Tutor, Physics (Higher Education)
0209-0119	Lecturer/Tutor, Environmental Studies (Higher Education)
0209-0121	Lecturer/Tutor, Veterinary Science (Higher Education)
0209-0123	Lecturer/Tutor, Chemical Engineering (Higher Education)
0209-0125	Lecturer/Tutor, Civil Engineering (Higher Education)
0209-0127	Lecturer/Tutor, Electrical/Electronic Engineering (Higher Education)
0209-0129	Lecturer/Tutor, Industrial and Production Engineering (Higher Education)
0209-0131	Lecturer/Tutor, Mechanical Engineering (Higher Education)
0209-0133	Lecturer/Tutor, Mining Engineering (Higher Education)
0209-0135	Lecturer/Tutor, Computer Science/Electronic Data Processing (Higher Education)
0209-0137	Lecturer/Tutor, Mathematics (Higher Education)
0209-0139	Lecturer/Tutor, Statistics (Higher Education)
0209-0141	Lecturer/Tutor, Architecture (Higher Education)
0209-0143	Lecturer/Tutor, Building (Higher Education)
0209-0145	Lecturer/Tutor, Surveying (Higher Education)
0209-0147	Lecturer/Tutor, Anthropology (Higher Education)
0209-0149	Lecturer/Tutor, Economics (Higher Education)
0209-0151	Lecturer/Tutor, Geography (Higher Education)
0209-0153	Lecturer/Tutor, Law (Higher Education)
0209-0155	Lecturer/Tutor, Librarianship (Higher Education)
0209-0157	Lecturer/Tutor, Political Science (Higher Education)
0209-0159	Lecturer/Tutor, Psychology (Higher Education)
0209-0161	Lecturer/Tutor, Social/Welfare Work (Higher Education)
0209-0163	Lecturer/Tutor, Sociology (Higher Education)

0209-0165	Lecturer/Tutor, Urban and Regional Planning (Higher Education)
0209-0167	Lecturer/Tutor, History (Higher Education)
0209-0169	Lecturer/Tutor, Classical Studies (Higher Education)
0209-0171	Lecturer/Tutor, English (Higher Education)
0209-0173	Lecturer/Tutor, Modern Languages (Higher Education)
0209-0175	Lecturer/Tutor, Philosophy (Higher Education)
0209-0177	Lecturer/Tutor, Education (Higher Education)
0209-0179	Lecturer/Tutor, Early Childhood Teacher Education (Higher Education)
0209-0181	Lecturer/Tutor, Primary Teacher Education (Higher Education)
0209-0182	Lecturer/Tutor, Secondary Teacher Education (Higher Education)
0209-0183	Lecturer/Tutor, Special Teacher Education (Higher Education)
0209-0184	Lecturer/Tutor, Tertiary Teacher Education (Higher Education)
0209-0185	Lecturer/Tutor, Medical Sciences (Higher Education)
0209-0186	Lecturer/Tutor, Dentistry (Higher Education)
0209-0187	Lecturer/Tutor, Medical Technology (Higher Education)
0209-0188	Lecturer/Tutor, Nursing (Higher Education)
0209-0189	Lecturer/Tutor, Nutrition and Dietetics (Higher Education)
0209-0190	Lecturer/Tutor, Pharmacy (Higher Education)
0209-0191	Lecturer/Tutor, Design (Higher Education)
0209-0192	Lecturer/Tutor, Dramatic Arts (Higher Education)
0209-0193	Lecturer/Tutor, Fine Arts (Higher Education)
0209-0194	Lecturer/Tutor, Professional Writing and Journalism (Higher Education)
0209-0199	Other Academic Teachers, University and CAE

**0209-03 TAFE TEACHERS (TRADE)**

This unit group covers occupations concerned with technical and further education teaching of trade subjects.

**Entry Requirements:** A trade qualification in an appropriate area plus at least 5 years' post-apprenticeship industrial experience. If not already teacher-trained, full-time appointees to permanent teaching staff of a TAFE employing authority undertake a course of teacher training, usually with an emphasis on TAFE teaching, and on satisfactory completion are awarded a recognised professional teaching qualification.

**Activities:** As per Master Title TEACHER (TAFE).

**Occupations:**

0209-0301	Teacher, Metal Trades (TAFE)
0209-0303	Teacher, Electrical Trades (TAFE)
0209-0305	Teacher, Building Trades (TAFE)
0209-0307	Teacher, Printing Trades (TAFE)
0209-0309	Teacher, Vehicle Trades (TAFE)
0209-0311	Teacher, Food Trades (TAFE)
0209-0399	TAFE Teachers, Other Trades

**0209-05 TAFE TEACHERS (NON-TRADE)**

This unit group covers occupations concerned with technical and further education teaching of mainly technician, post-trade, para-professional, commercial and non-trade vocational, preparatory and adult education courses.

**Entry Requirements:** A degree or diploma in an appropriate area plus at least 2 years' industrial experience; however, depending on the teaching area, a para-professional certificate

**0213-03 ORGANISATION AND METHODS ANALYSTS**

This unit group covers occupations concerned with reviewing, analysing and improving business and organisational systems to assist management to operate with greater efficiency and effectiveness.

**Entry Requirements:** A degree/diploma in commerce, accounting, economics, business studies or a related discipline and experience.

**Activities:** Conducting organisational studies and evaluations; designing systems and procedures for new work processes; conducting work simplification and measurement studies; maintaining a forms and records management program; and preparing and maintaining systems and procedures manuals.

**Occupations:**

- 0213-0301 Methods and Procedures Analyst
- 0213-0303 Organisational Analyst
- 0213-0305 Record Systems Analyst

**0213-05 PERSONNEL SPECIALISTS**

This unit group covers occupations concerned with carrying out policies, as directed by management, primarily related to personnel administration and industrial relations.

**Entry Requirements:** A degree/diploma in an area such as a social science or personnel studies and experience.

**Activities:** Representing management or labour in collective bargaining procedures; participating in programs of recruitment, selection, placement, training, welfare, safety, compensation, promotion and separation of employees; providing a placement service to employing bodies and job seekers; and interviewing and counselling job seekers to determine their suitability for employment, vocational training, rehabilitation programs and related manpower services.

**Occupations:**

- 0213-0501 Personnel Officer
- 0213-0503 Training Officer
- 0213-0505 Staff Development Officer
- 0213-0507 Industrial Relations Officer

**0213-07 DATA PROCESSORS**

This unit group covers occupations concerned with designing, planning, implementing, controlling and programming electronic data processing (EDP) systems, including components such as data terminals and communication networks.

**Entry Requirements:** A degree/diploma with major studies, or a graduate diploma, in computer science, data processing or related subjects; occupations involving research normally require a higher degree. Trainee computer programmers may only require Year 12 in some cases.

**Activities:** Analysis of computer systems; advising on availability and use of EDP resources, capabilities and technological development; application of EDP techniques to organisational systems, procedures and operations; writing, maintaining and updating computer programs for commercial, scientific and other purposes in a variety of computer languages.

**Occupations:**

- 0213-0701 Computer Programmer
- 0213-0703 Computer Scientist
- 0213-0705 Systems Analyst
- 0213-0707 Systems Programmer
- 0213-0799 Data Processors, nec

**0213-99 OTHER BUSINESS PROFESSIONALS**

This unit group covers occupations concerned with business activities not included elsewhere in Minor Group 0213.

**Entry Requirements:** A degree or diploma generally in economics, commerce, business studies or social science.

**Activities:** Evaluating and purchasing business equipment and supplies; preparing and disseminating information; designing and maintaining records systems.

**Occupations:**

- 0213-9901 Procurement Officer
- 0213-9903 Public Relations Officer
- 0213-9905 Medical Record Administrator
- 0213-9907 Trust Officer
- 0213-9909 Forms Analyst and Designer
- 0213-9911 Administrative Officer
- 0213-9913 Properties Investment Manager
- 0213-9999 Other Business Professionals, nec

## MINOR GROUP 0215 ARTISTS AND RELATED OCCUPATIONS

This minor group contains professional occupations concerned with the design and creation of artifacts in various media. For many occupations entry is by demonstrated ability rather than formal qualifications, although degree courses exist in each discipline. Formal qualifications are more often required in commercially related areas such as Design and Journalism.

Occupations in this minor group are classified into the following unit groups:

- 0215-01 PAINTERS, SCULPTORS AND RELATED OCCUPATIONS
- 0215-03 DESIGNERS AND ILLUSTRATORS
- 0215-05 JOURNALISTS
- 0215-07 AUTHORS AND RELATED OCCUPATIONS
- 0215-09 FILM, TELEVISION AND STAGE DIRECTORS
- 0215-11 COMPOSERS AND RELATED OCCUPATIONS
- 0215-13 CHOREOGRAPHERS

**0215-01 PAINTERS, SCULPTORS AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with creating and executing original artistic works, and with teaching art.

**Entry Requirements:** Demonstrated artistic ability rather than formal entry requirements, however degree/diploma/para-professional or basic vocational certificate courses in art and related areas are available.

**Activities:** Creating pictures, abstract designs and similar artistic compositions including cartoons and photographs; creating original designs and engraving or etching them on metal, wood or other materials for reproduction; creating three-dimensional forms by shaping materials such as wood, stone, clay or metal; and teaching art.

**Occupations:**

- 0215-0101 Artist
- 0215-0103 Photographer
- 0215-0105 Printmaker
- 0215-0107 Sculptor

**0215-03 DESIGNERS AND ILLUSTRATORS**

This unit group covers occupations concerned with creating designs for presentation by the visual communications media, for garments, for the interior of homes and public buildings, for display and exhibition purposes and for industrial, commercial, and domestic products.

**Entry Requirements:** Demonstrated artistic ability plus a degree/diploma/para-professional certificate in a relevant area of art or design.

**Activities:** Designing art and copy layouts for material to be presented by the visual communications media such as books, magazines, television and audio-visual presentations; creating original styles for garments; planning and designing interiors for homes, industrial, commercial and other institutions; and creating designs for the fabrication of industrial and commercial products, taking into account aesthetic qualities, technical requirements and any new technology available, safety factors, marketing considerations and business objectives.

**Occupations:**

- 0215-0301 Fashion Designer
- 0215-0303 Graphic Designer
- 0215-0305 Industrial Designer
- 0215-0307 Interior Designer
- 0215-0309 Illustrator

**0215-05 JOURNALISTS**

This unit group covers occupations concerned with gathering and selecting information regarding newsworthy events, and writing and editing reports and articles for newspapers, magazines and newsagencies, and for news and current affairs programs for radio and television.

**Entry Requirements:** A degree/diploma/associate diploma in journalism, or satisfactory completion of a 4-year cadetship with a newspaper company, or a degree and satisfactory completion of a 1-year cadetship, plus up to 20 years' experience.

**Activities:** Directing preparation of particular section of newspaper, magazine or other publication; directing, gathering, selecting and editing of news; assessing suitability of reports and articles for publication or broadcasting, editing as necessary; writing comments on topics of current interest; and collecting and analysing facts, and writing articles regarding newsworthy events.

**Occupations:**

- 0215-0501 Associate Editor
- 0215-0503 Chief of Staff (News)
- 0215-0505 Leader Writer
- 0215-0507 Reporter
- 0215-0509 Sub-Editor

- 0215-0511 Copy-Writer
- 0215-0599 Journalists, nec

**0215-07 AUTHORS AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with writing and editing literary works for publication and scripts for stage, film, radio or television presentations.

**Entry Requirements:** Demonstrated literary ability rather than formal entry requirements in most cases, although persons entering the occupations of book editor and script editor usually require a degree; however degree/diploma and associate diploma courses in professional and creative writing, and diploma courses in dramatic arts and film and television, which include studies in scriptwriting, are available.

**Activities:** Planning and writing literary works for publication; writing original scripts for stage, film, radio and television productions; evaluating manuscripts of books to determine suitability for publication, suggesting changes where necessary; and editing and supervising preparation of script material for television, radio, stage or motion picture presentations.

**Occupations:**

- 0215-0701 Author
- 0215-0703 Script Writer
- 0215-0705 Book Editor
- 0215-0707 Script Editor
- 0215-0709 Translator

**0215-09 FILM, TELEVISION AND STAGE DIRECTORS**

This unit group covers occupations concerned with producing and directing theatrical performances, motion picture productions and radio or television programs for entertainment, information and instruction.

**Entry Requirements:** On-the-job training at junior levels and experience rather than formal qualifications; however degree/diploma courses in drama, dramatic arts, and film and television, and associate diploma courses in performing arts and theatre practice are available.

**Activities:** Supervising and co-ordinating activities of a studio or set; directing dramatic, musical, technical, photographic, artistic and dancing activities involved in a production; making arrangements associated with the auditioning and selection of the cast; and editing film for final presentation of production.

**Occupations:**

- 0215-0901 Art Director (Television, Films and Stage)
- 0215-0903 Casting Director
- 0215-0905 Director (Film and Stage)
- 0215-0907 Director of Photography
- 0215-0909 Film Editor
- 0215-0911 Floor Manager (Television)
- 0215-0913 Director (Broadcasting)
- 0215-0915 Technical Producer

**Related Occupations:**

- 0103-0700 Producer (Films and Stage)
- 0103-0700 Production Manager (Television, Films and Stage)
- 0103-0700 Program Manager
- 0103-0700 Recording Director

**0215-11 COMPOSERS AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with composing, orchestrating, arranging and copying musical works or parts thereof.

**Entry Requirements:** Demonstrated musical ability in an appropriate area rather than formal entry requirements, however degree/diploma courses in music composition are available.

**Activities:** Creating and writing musical compositions; providing orchestration for musical works; adapting and modifying musical compositions; and copying and compiling parts from musical scores for individual performers within a musical group.

**Occupations:**

0215-1101	Composer
0215-1103	Music Arranger
0215-1105	Music Copyist
0215-1107	Orchestrator

**0215-13 CHOREOGRAPHERS**

This unit group covers occupations concerned with creating dances and instructing dancers in their performance.

**Entry Requirements:** Demonstrated ability rather than formal qualifications.

**Activities:** Studying musical score, story or theme to harmonise dance therewith; planning required movements and recording them; demonstrating steps to dancers.

**Occupations:**

0215-1301	Choreographer
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## MINOR GROUP 0217 OTHER PROFESSIONAL OCCUPATIONS

This minor group contains professional occupations not classified in the other minor groups. Entry requirements are a degree or diploma in a relevant area.

Occupations in this minor group are classified into the following unit groups:

- 0217-01 ECONOMISTS
- 0217-03 PSYCHOLOGISTS
- 0217-05 OTHER SOCIAL SCIENTISTS
- 0217-07 MATHEMATICIANS, STATISTICIANS AND ACTUARIES
- 0217-09 EDUCATIONAL RESEARCH AND RELATED OCCUPATIONS
- 0217-11 LIBRARIANS
- 0217-99 OTHER PROFESSIONAL OCCUPATIONS

**0217-01 ECONOMISTS**

This unit group covers occupations concerned with conducting research, developing and applying principles and theories of economics and formulating plans for the solution of economic problems arising from the production and distribution of goods and services.

**Entry Requirements:** A degree in economics, commerce or in a related discipline; occupations involving research normally require an honours or higher degree.

**Activities:** Conducting research into the mathematical basis of the study of economics; developing models to illustrate and forecast economical activity and patterns; devising methods for collection and analysis of economic and statistical data; compiling and interpreting such data; preparing reports, estimates and forecasts based on economic studies and on analysed and interpreted data; advising industry or government on questions in specialised fields, such as finance and monetary policy, international trade, labour, agriculture, industrial production, transport, urban and regional matters or the environment.

**Occupations:**

0217-0101	Economist, General
0217-0103	Economist, Research
0217-0105	Agricultural Economist
0217-0107	Econometrician
0217-0109	Financial Economist
0217-0111	Industrial Economist
0217-0113	Investment Analyst
0217-0115	Transport Economist

**Related Occupations:**

0213-01	Accountants and Auditors (Unit Group)
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**0217-03 PSYCHOLOGISTS**

This unit group covers occupations concerned with collecting and interpreting scientific data for the purpose of investigating

psychological phenomena and formulating and applying psychological principles in understanding, predicting and managing behaviour in society.

**Entry Requirements:** An honours degree in psychology or its equivalent; however, many psychology occupations also require a higher degree.

**Activities:** Observing behaviour; measuring mental and physical characteristics; studying mental and behavioural problems in a variety of social contexts; recommending and providing treatment for mental and personality disorders; suggesting and presenting programs to enhance personal satisfaction and effectiveness and to improve the quality of life; using counselling and other means to treat or prevent maladaptive behaviour or to bring about improvements in social, educational, occupational or health-care environments; evaluating such programs and procedures; planning and conducting experiments using human and/or animal subjects.

**Occupations:**

0217-0301	Clinical Psychologist
0217-0303	Counselling Psychologist
0217-0305	Educational Psychologist
0217-0307	Occupational Psychologist

**Related Occupations:**

0205-0311	Psychiatrist
0211-01	Social Workers (Unit Group)

**0217-05 OTHER SOCIAL SCIENTISTS**

This unit group covers occupations not classified elsewhere concerned with the study of human society and its social and political institutions.

**Entry Requirements:** A degree in an appropriate discipline.

**Activities:** Studying the evidence of past human activities; the geographic distribution and interrelationship of human and physical phenomena; designing human environments.

**Occupations:**

0217-0501	Urban and Regional Planner
0217-0503	Anthropologist
0217-0505	Geographer
0217-0507	Historian
0217-0509	Home Economist
0217-0511	Sociologist
0217-0513	Political Scientist
0217-0515	Criminologist
0217-0599	Other Social Scientists, nec

**0217-07 MATHEMATICIANS, STATISTICIANS AND ACTUARIES**

This unit group covers occupations concerned with research in mathematical and statistical theory, the development and application of mathematical and statistical techniques, methods for solving problems and producing information in natural and social science fields and the analysis of management problems requiring the formulation of mathematical models for solution by computer.

**Entry Requirements:** A degree in science with major studies in mathematics, statistics or related subjects; occupations involving research normally require a higher degree.

**Activities:** Research in fundamental mathematics; developing and testing models and hypotheses; applying mathematical techniques to scientific, engineering, economic and commercial problems; evaluating numerical data; designing experiments and surveys; applying mathematical and statistical techniques to the design of insurance policies, the assessment of risks and the formulation of investment plans and policies.

**Occupations:**

0217-0701	Mathematician (General)
0217-0703	Research Mathematician
0217-0705	Actuary
0217-0707	Applied Statistician
0217-0709	Mathematical Statistician
0217-0711	Operations Research Analyst

**0217-09 EDUCATION RESEARCH AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with research in education and the provision of professional services in support of education.

**Entry Requirements:** A degree or post-graduate diploma in education.

**Activities:** Conducting research into education; developing courses of instruction; evaluating the effectiveness of

educational practices and policy advising on educational problems.

**Occupations:**

0217-0901	Educational Research Officer
0217-0903	Curriculum Development Officer
0217-0905	School Inspector, Primary
0217-0907	School Inspector, Secondary
0217-0999	Other Education Research and Related Occupations

**0217-11 LIBRARIANS**

This unit group covers occupations concerned with organising, retrieving and packaging information for a variety of end users.

**Entry Requirements:** A degree in librarianship, or in an appropriate discipline with a graduate diploma in librarianship.

**Activities:** Developing, organising and maintaining systematic collections of books, films and other recorded materials; establishing inter-library and other information networks; conducting or assisting others to conduct on-line searches of data bases; designing and establishing index systems; and assisting users with library services.

**Occupations:**

0217-1101	Librarian
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**Related Occupations:**

0207-0311	Primary School Teacher, Librarian
0207-0511	Secondary School Teacher, Librarian

**0217-99 OTHER PROFESSIONAL OCCUPATIONS**

This unit group covers professional occupations not classified elsewhere in Major Group 02.

**Entry Requirements:** An appropriate degree or diploma.

**Activities:** Arranging displays of works of art and historical specimens; preserving art objects and records and ensuring their safety and availability; planning cultural and recreational activities; and conducting research.

**Occupations:**

0217-9901	Curator
0217-9903	Archivist
0217-9905	Research Workers, nec
0217-9907	Student Activities Officer
0217-9909	Recreation Officer
0217-9999	Other Professional Occupations, nec

## **MAJOR GROUP 03**

### **PARA-PROFESSIONAL OCCUPATIONS**

This major group contains occupations concerned with providing technical support to professional occupations, and with carrying out technical functions independently at an equivalent level. Occupations in this major group generally require an associate diploma or a para-professional certificate for entry, while those for which such a qualification is available but not generally required are excluded.

Minor groups are distinguished from each other on the basis of function.

Unit groups are distinguished from each other on the basis of subject matter or discipline.

Occupations in this major group are classified into the following minor groups:

- 0301 TECHNICAL OFFICERS
- 0303 SCIENCE TECHNICIANS
- 0305 ENGINEERING TECHNICIANS
- 0307 AIR AND SEA TRANSPORT TECHNICAL  
OCCUPATIONS
- 0309 NURSES
- 0311 OTHER PARA-PROFESSIONAL OCCUPATIONS

## MINOR GROUP 0301 TECHNICAL OFFICERS

This minor group contains technical officer occupations in science engineering and architecture. Entry requirement is a para-professional certificate or associate diploma in an appropriate area. The tasks involved in such occupations are described in the Master Title TECHNICAL OFFICER.

Occupations in this minor group are classified into the following unit groups:

- 0301-01 PHYSICAL SCIENCE TECHNICAL OFFICERS
- 0301-03 LIFE SCIENCE TECHNICAL OFFICERS
- 0301-05 ENGINEERING TECHNICAL OFFICERS
- 0301-07 ARCHITECTURE, BUILDING AND SURVEYING TECHNICAL OFFICERS

### 0301-01 PHYSICAL SCIENCE TECHNICAL OFFICERS

This unit group covers occupations concerned with carrying out technical functions, primarily in support of research, design, or the development, control or maintenance of progress, in the fields of the physical sciences or their technological applications.

**Entry Requirements:** A para-professional certificate, associate diploma or diploma in Science or Applied Science specialising in the physical sciences.

**Activities:** As per Master Title TECHNICAL OFFICER.

**Occupations:**

- 0301-0101 Chemistry Technical Officer
- 0301-0103 Earth Sciences Technical Officer
- 0301-0105 Physics Technical Officer
- 0301-0107 Textiles Technical Officer

### 0301-03 LIFE SCIENCE TECHNICAL OFFICERS

This unit group covers occupations concerned with carrying out technical functions, primarily in support of research or provision of advice on biology and its applications or the development or control of plants and animals.

**Entry Requirements:** A para-professional certificate, diploma or associate diploma in Science specialising in the life sciences.

**Activities:** As per Master Title TECHNICAL OFFICER.

**Occupations:**

- 0301-0301 Agricultural Technical Officer
- 0301-0303 Biology Technical Officer
- 0301-0305 Microbiology Technical Officer

### 0301-05 ENGINEERING TECHNICAL OFFICERS

This unit group covers occupations concerned with carrying out drafting and other technical functions in support of

engineering research and design, and the construction, manufacture, operation and maintenance of engineering products.

**Entry Requirements:** A para-professional certificate or associate diploma in Engineering.

**Activities:** As per Master Title TECHNICAL OFFICER.

**Occupations:**

- 0301-0501 Civil Engineering Technical Officer
- 0301-0503 Electrical Engineering Technical Officer
- 0301-0505 Electronics Engineering Technical Officer
- 0301-0507 Mechanical Engineering Technical Officer
- 0301-0509 Process Control Technical Officer
- 0301-0599 Engineering Technical Officers, nec

### 0301-07 ARCHITECTURE, BUILDING AND SURVEYING TECHNICAL OFFICERS

This unit group covers occupations concerned with carrying out drafting and other technical functions concerned with the preparation of building and other plans or maps, and ensuring the availability of sufficient resources for the implementation of building plans.

**Entry Requirements:** A para-professional certificate or associate diploma in Architecture, Building, Surveying or Cartography.

**Activities:** As per Master Title TECHNICAL OFFICER.

**Occupations:**

- 0301-0701 Architectural Technical Officer
- 0301-0703 Building Technical Officer
- 0301-0705 Cartography Technical Officer
- 0301-0707 Surveying Draftsman/woman
- 0301-0709 Surveying Technical Officer
- 0301-0799 Architecture, Building and Surveying Technical Officers, nec

## MINOR GROUP 0303 SCIENCE TECHNICIANS

This minor group contains technician occupations in the scientific area. Entry requirement is an appropriate technician certificate. The tasks involved in such occupations are described in the Master Title TECHNICIAN. Occupations involving dealing with medical patients using technical equipment are in Unit Group 0311-05: MEDICAL TECHNICAL SUPPORT OCCUPATIONS.

Occupations in this minor group are classified into the following unit groups:

- 0303-01 PHYSICAL SCIENCE TECHNICIANS
- 0303-03 LIFE SCIENCE TECHNICIANS

**0303-01 PHYSICAL SCIENCE TECHNICIANS**

This unit group covers occupations concerned with carrying out limited technical functions in support of research and testing, including observations, measurement and equipment maintenance, in the physical services.

**Entry Requirements:** A para-professional certificate in Science or Applied Science, specialising in the Physical Sciences.

**Activities:** As per Master Title TECHNICIAN.

**Occupations:**

0303-0101	Chemistry Technician
0303-0103	Geology Technician
0303-0105	Geophysics Technician
0303-0107	Hydrological Technician
0303-0109	Meteorological Observer
0303-0111	Physics Technician
0303-0113	Testing Technician

**0303-03 LIFE SCIENCE TECHNICIANS**

This unit group covers occupations concerned with carrying out limited technical functions in support of research and testing in the Life Sciences and management of plants and animals.

**Entry Requirements:** A para-professional certificate in Science (specialising in the life sciences) or a field of life-science technology.

**Activities:** As per Master Title TECHNICIAN.

**Occupations:**

0303-0301	Agricultural Field Technician
0303-0303	Animal Technician
0303-0305	Botanical Technician
0303-0307	Forestry Technician
0303-0309	Veterinary Nurse
0303-0311	Medical Laboratory Technician

## MINOR GROUP 0305 ENGINEERING TECHNICIANS

This minor group contains technician occupations in the engineering field. Entry requirement is an appropriate technician certificate. The tasks involved in such occupations are described in the Master Title TECHNICIAN. Occupations using the term TECHNICIAN as part of their title but involving repair work are classified in Major Group 07: TRADES AND OTHER SKILLED OCCUPATIONS (EXCEPT AGRICULTURE).

Occupations in this minor group are classified into the following unit groups:

**0305-01 CIVIL ENGINEERING TECHNICIANS****0305-03 ELECTRICAL ENGINEERING TECHNICIANS****0305-05 ELECTRONICS ENGINEERING TECHNICIANS****0305-07 MECHANICAL ENGINEERING TECHNICIANS****0305-99 OTHER ENGINEERING TECHNICIANS****0305-01 CIVIL ENGINEERING TECHNICIANS**

This unit group covers occupations concerned with carrying out drafting and other limited technical functions in support of civil engineering research, design, construction, operation and maintenance.

**Entry Requirements:** A para-professional certificate in drafting or a related area, with 2 months' on-the-job training.

**Activities:** As per Master Title TECHNICIAN.

**Occupations:**

0305-0101	Civil Engineering Technician
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**0305-03 ELECTRICAL ENGINEERING TECHNICIANS**

This unit group covers occupations concerned with carrying out drafting and other limited technical functions in support of electrical engineering research, design, construction, operation and maintenance.

**Entry Requirements:** A para-professional certificate in drafting or a related area, or a certificate in an electrical trade, and 2 months' on-the-job training.

**Activities:** As per Master Title TECHNICIAN.

**Occupations:**

0305-0301	Electrical Engineering Technician
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**0305-05 ELECTRONICS ENGINEERING TECHNICIANS**

This unit group covers occupations concerned with carrying

out drafting and other limited technical functions in support of electronic engineering research, design, construction, operation and maintenance.

**Entry Requirements:** A para-professional certificate in drafting or a related area, or a certificate in an electronics trade, and 2 months' on-the-job training.

**Activities:** As per Master Title TECHNICIAN.

**Occupations:**

0305-0501	Electronics Engineering Technician
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**0305-07 MECHANICAL ENGINEERING TECHNICIANS**

This unit group covers occupations concerned with carrying out drafting and other limited technical functions in support of mechanical engineering research, design, construction, operation and maintenance.

**Entry Requirements:** A para-professional certificate in drafting or a related area, or a certificate in a mechanical engineering trade, and 2 months' on-the-job training.

**Activities:** As per Master Title TECHNICIAN.

**Occupations:**

0305-0701	Mechanical Engineering Technician
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**0305-99 OTHER ENGINEERING TECHNICIANS**

This unit group covers occupations concerned with carrying out drafting and other limited technical functions in support of research, design, construction, operation and maintenance

in fields of engineering other than civil, electrical, electronic or mechanical.

**Entry Requirements:** A para-professional certificate in drafting or a related area.

**Activities:** As per Master Title TECHNICIAN.

**Occupations:**

0305-9901	Chemical Engineering Technician
0305-9903	Metallurgical Technician
0305-9905	Mining Technician
0305-9999	Other Engineering Technicians, nec

## MINOR GROUP 0307 AIR AND SEA TRANSPORT TECHNICAL OCCUPATIONS

This minor group contains technical occupations concerned with the operation of aircraft and ships. Entry requirement is an appropriate certificate or licence to operate the equipment in question.

Occupations in this minor group are classified into the following unit groups:

### 0307-01 AIRCRAFT PILOTS

### 0307-03 AIRWAYS SURVEYORS AND EXAMINERS OF AIRMEN/WOMEN

### 0307-05 AIR TRANSPORT OPERATING SUPPORT OCCUPATIONS

### 0307-07 SHIP'S PILOTS AND DECK OFFICERS

### 0307-99 OTHER AIR AND SEA TRANSPORT OPERATING OCCUPATIONS

#### 0307-01 AIRCRAFT PILOTS

This unit group covers occupations concerned with piloting helicopters and fixed wing aircraft usually to transport passengers or freight.

**Entry Requirements:** A pilot's licence appropriate to the class of aircraft to be operated, together with several years' experience.

**Activities:** Preparing flight plan (allowing for weather); ensuring correct loading and fuelling of aircraft; controlling aircraft during takeoff, flight and landing; and navigation of aircraft (including use of radio and electronic aids).

**Occupations:**

0307-0101	Airline Pilot
0307-0103	Commercial Pilot, General Aviation
0307-0105	Helicopter Pilot
0307-0199	Aircraft Pilots, nec

#### 0307-03 AIRWAYS SURVEYORS AND EXAMINERS OF AIRMEN/WOMEN

This unit group covers occupations concerned with the examination and inspection of aircrew, aircraft and air transport facilities to ensure the maintenance of appropriate safety standards.

**Entry Requirements:** A senior commercial or airline transport pilot's licence and a 1st Class Instrument Rating, plus 10-15 years' experience.

**Activities:** Devising and revising standards, specifications and procedures for the safe and efficient operation of air transport; and examining aircraft, aircrew and airport facilities to ensure compliance with standards.

**Occupations:**

0307-0301	Airways Surveyor
0307-0303	Examiner of Aircrew

#### 0307-05 AIR TRANSPORT OPERATING SUPPORT OCCUPATIONS

This unit group covers occupations concerned with ground-based co-ordination and control of air traffic.

**Entry Requirements:** Appropriate Department of Aviation course, plus several years' experience.

**Activities:** Obtaining and providing information about aircraft flight plans, location etc, weather conditions, condition of availability of facilities etc, including by use of various radio

and other communications equipment and electronic navigation aids; and the operation of lights, beacons etc.

**Occupations:**

0307-0501	Air Traffic Controller
0307-0503	Flight Service Officer, Government
0307-0505	Operations Controller, Air Transport (Government)
0307-0599	Air Transport Operating Support Occupations, nec

#### 0307-07 SHIP'S PILOTS AND DECK OFFICERS

This unit group includes occupations concerned with piloting, controlling and operating marine vessels and vessels for use in inland waters.

**Entry Requirements:** An appropriate Master's or Second Mate certificate plus a number of years' experience.

**Activities:** Using navigational skills and knowledge of area to determine course of vessel, referring to sextant, compass and other navigational aids where necessary; controlling speed and direction of vessel; and supervising other crew members in loading, unloading, operation and maintenance of vessel.

**Occupations:**

0307-0701	Ship's Pilot
0307-0703	Master, Ship
0307-0705	Ship's Mate
0307-0707	Master, Tug
0307-0709	Master, Ferry Boat/Passenger Launch/River Boat
0307-0799	Ship's Pilots and Deck Officers, nec

#### 0307-99 OTHER AIR AND SEA TRANSPORT OPERATING OCCUPATIONS

This unit group covers technical occupations in air or sea transport not covered by other unit groups in this minor group.

**Entry Requirements:** A para-professional certificate or equivalent.

**Occupations:**

0307-9901	Flight Engineer
0307-9903	Airworthiness Surveyor
0307-9905	Aircraft Navigator
0307-9907	Marine Engineer
0307-9909	Marine Engineer Surveyor

0307-9911 Marine Surveyor

0307-9999 Other Air and Sea Transport Operating  
Occupations, nec

## MINOR GROUP 0309 NURSES

This minor group contains occupations involving nursing. Entry requirements are a diploma or para-professional certificate or several years' on-the-job training, or Year 11 in the case of students. Nurses aides are classified in the Major Group 06: SERVICE OCCUPATIONS.

Occupations in this minor group are classified into the following unit groups:

0309-01 GENERAL NURSES

0309-03 SPECIALIST NURSES

0309-05 NURSES IN TRAINING

### 0309-01 GENERAL NURSES

This unit group covers occupations concerned with providing general nursing care to patients in hospitals and nursing homes.

**Entry Requirements:** A basic nursing qualification from an approved hospital, or a CAE diploma in nursing.

**Activities:** Nursing to the sick, injured and infirm; assisting medical practitioners; supervising the administration of medication; observing, recording and reporting to the supervisor or medical practitioner, patient's condition, reaction to drugs and other treatment, and significant changes; and counselling patient and family in care and treatment to be continued at home.

**Occupations:**

0309-0101 General Registered Nurse

**Related Occupations:**

0609-03 Enrolled Nurses (Unit Group)

### 0309-03 SPECIALIST NURSES

This unit group covers occupations concerned with the performance of advanced and specialised nursing duties in a hospital, clinic or elsewhere in the community.

**Entry Requirements:** A basic nursing qualification from an approved hospital or a diploma in nursing, and/or a post-basic qualification in the relevant nursing specialisation.

**Activities:** Providing nursing care for particular categories of patients, such as mothers and babies before, during and after birth, the mentally retarded, those undergoing surgery, and those suffering from conditions requiring specialised care; teaching classes and giving advice on health care; and monitoring infants' development.

**Occupations:**

0309-0301 Community Health Nurse

0309-0303 Midwifery Nurse

0309-0305 Mental Retardation Nurse

0309-0307 Psychiatric Nurse

0309-0399 Specialist Nurses, nec

### 0309-05 NURSES IN TRAINING

This unit group covers occupations in which on-the-job training is undertaken with a view to qualifying for one of the basic nursing occupations described in Unit Group 0309-01: GENERAL NURSES.

**Entry Requirements:** Year 11-12.

**Activities:** Performing duties of 0309-01: GENERAL NURSES on a progressive basis according to a training schedule.

**Occupations:**

0309-0501 Student Nurse

## MINOR GROUP 0311 OTHER PARA-PROFESSIONAL OCCUPATIONS

This minor group contains para-professional occupations not included in the above minor groups. Entry requirements are a para-professional certificate and/or associate diploma in an appropriate area.

Occupations in this minor group are classified into the following unit groups:

0311-01 WELFARE WORKERS

0311-03 RADIOGRAPHERS

0311-05 MEDICAL TECHNICAL SUPPORT OCCUPATIONS

0311-07 COMMERCIAL ART SUPPORT OCCUPATIONS

0311-09 PERFORMING ARTS TECHNICAL SUPPORT OCCUPATIONS

0311-99 OTHER PARA-PROFESSIONAL OCCUPATIONS, NEC

**0311-01 WELFARE WORKERS**

This unit group covers occupations concerned with assisting individuals, families and groups in coping with social problems.

**Entry Requirements:** An associate diploma or para-professional certificate in welfare work or a related area.

**Activities:** Working as individuals or group members to organise, supervise and conduct social, rehabilitation and similar programs; interviewing and advising individuals and groups; and evaluating and preparing reports on nature of problem and progress made.

**Occupations:**

0311-0101	Community Worker
0311-0103	Parole Officer
0311-0105	Probation Officer
0311-0107	Welfare Officer
0311-0109	Youth Worker

**0311-03 RADIOGRAPHERS**

This unit group covers occupations in diagnostic or therapeutic radiography.

**Entry Requirements:** An associate diploma or diploma in radiography.

**Activities:** Operating X-ray and other radiation producing equipment; regulating length and intensity of X-ray beam; preliminary interpretation of film records; handling radioactive materials; and using radiation detectors to trace and identify radioactive materials in body organs and tissues.

**Occupations:**

0311-0301	Medical Diagnostic Radiographer
0311-0303	Medical Therapeutic Radiographer

**Related Occupations:**

0205-0313	Radiologist
0311-0509	Medical Nucleographer

**0311-05 MEDICAL TECHNICAL SUPPORT OCCUPATIONS**

This unit group covers occupations concerned with providing technical support for medical, dental and other practitioners in the diagnosis and treatment of human diseases and disorders.

**Entry Requirements:** A para-professional certificate in a relevant technical specialisation.

**Activities:** Operating a range of medical equipment, and administering tests to diagnose medical conditions; preparing equipment for use by medical practitioners; carrying out simpler tasks in dental care under supervision; dispensing (to prescription); and repairing devices for the correction of vision defects.

**Occupations:**

0311-0501	Cardiac Technician
0311-0503	Dental Therapist
0311-0505	Optical Dispenser
0311-0507	Audiometrist
0311-0509	Medical Nucleographer
0311-0599	Medical Technical Support Occupations, nec

**0311-07 COMMERCIAL ART SUPPORT OCCUPATIONS**

This unit group covers occupations concerned with preparing art work and photographs for commercial purposes, and

assisting in photographic work.

**Entry Requirements:** An associate diploma/para-professional certificate/basic vocational certificate in a relevant area.

**Activities:** Designing art layouts to illustrate a variety of publications, audio-visual presentations and advertising material; producing finished artwork ready for reproduction; arranging and mounting copy material on paper according to instructions and photographing completed layout; retouching portrait, commercial or other photographic negatives; and assisting photographer in taking and developing photographs.

**Occupations:**

0311-0701	Finished Artist
0311-0703	Layout Artist
0311-0705	Paste-up Artist
0311-0707	Photograph Retoucher
0311-0709	Studio Assistant
0311-0799	Commercial Art Support Occupations, nec

**0311-09 PERFORMING ARTS TECHNICAL SUPPORT OCCUPATIONS**

This unit group covers occupations concerned with operating performing and audio-visual arts equipment involved in the production of radio, television, stage or motion picture presentations.

**Entry Requirements:** Year 11-12 and/or basic vocational qualifications.

**Activities:** Operating console to control radio or television broadcast transmitters; operating video console to ensure that quality of filmed or live picture being transmitted meets established standards; operating multi-channel sound mixing console to regulate volume and quality of sound; recording sound during production on magnetic tape or film; controlling positioning of microphone; and operating lighting equipment used to illuminate set or studio during stage performance, television broadcasting or filming of motion picture scenes.

**Occupations:**

0311-0901	Motion Picture Camera Operator
0311-0903	Television Camera Operator
0311-0905	Light Technician
0311-0907	Microphone Boom Operator
0311-0909	Sound Mixer
0311-0911	Sound Recordist
0311-0913	Broadcast Transmitter Operator
0311-0999	Performing Arts Technical Support Occupations, nec

**0311-99 OTHER PARA-PROFESSIONAL OCCUPATIONS, NEC**

This unit group covers other para-professional occupations not classified in other unit groups in this major group.

**Entry Requirements:** A para-professional certificate or equivalent.

**Occupations:**

0311-9901	Radio Telegraphist
0311-9903	Master Fisherman/woman, Sea-Going Fishing Vessels
0311-9905	Museum Technician
0311-9907	Library Technician
0311-9909	Window Dresser
0311-9911	Park Ranger
0311-9913	Torque/Turn Computer Operator
0311-9915	Directional Drill Operator
0311-9999	Other Para-Professional Occupations, nec

## **MAJOR GROUP 04**

### **CLERICAL AND RELATED OCCUPATIONS**

This major group contains occupations concerned with recording, extracting, sorting, transcribing and updating financial, archival, statistical or other information in written or typewritten form or contained in electronic storage systems; composing and despatching correspondence etc., typing and operating other office machines, and providing support for management occupations.

Within the major group, minor groups are distinguished from each other on the basis of function, and material worked with.

Within minor groups, unit groups are distinguished from each other on the basis of the method of processing information, the use for which it is intended, and in some cases, tools and equipment used eg. telephonists and operators of electronic data processing equipment.

Occupations in this major group are classified into the following minor groups:

- 0401 STENOGRAPHIC AND TYPING OCCUPATIONS
- 0403 BOOKKEEPING, BANKING AND INSURANCE  
ACCOUNT RECORDING AND RELATED  
OCCUPATIONS
- 0405 OFFICE BUSINESS MACHINE AND ELECTRONIC DATA  
PROCESSING EQUIPMENT OPERATORS
- 0407 SCHEDULING, DISPATCHING AND MATERIAL  
RECORDING OCCUPATIONS
- 0409 LIBRARY, FILE, CORRESPONDENCE CLERKS AND  
RELATED OCCUPATIONS
- 0411 RECEPTION, INFORMATION, MAIL AND MESSAGE  
DISTRIBUTION OCCUPATIONS
- 0499 OTHER CLERICAL AND RELATED OCCUPATIONS

## MINOR GROUP 0401 STENOGRAPHIC AND TYPING OCCUPATIONS

This minor group contains occupations concerned with taking and recording correspondence etc. by shorthand or voice recording machine, using a typewriter or word processor; and general office duties.

Occupations in this minor group are classified into the following unit groups:

### 0401-01 OFFICE SECRETARIES AND STENOGRAPHERS

### 0401-03 TYPISTS AND TYPIST-CLERKS

#### 0401-01 OFFICE SECRETARIES AND STENOGRAPHERS

This unit group covers occupations concerned with recording information in shorthand, typing and assisting senior staff.

**Entry Requirements:** Year 11-12 and up to 5 years' related work experience and/or a para-professional/associate diploma qualification.

**Activities:** Shorthand writing; typing from shorthand notes or dictating machine; making appointments; answering telephone calls; and performing general office duties.

**Occupations:**

- 0401-0101 Office Secretary
- 0401-0103 Court Reporter
- 0401-0105 Stenographer

#### 0401-03 TYPISTS AND TYPIST-CLERKS

This unit group covers occupations concerned with typing correspondence and other material from handwritten original

or from speech.

**Entry Requirements:** Year 10 and, in some cases, a para-professional certificate and up to 6 months' experience.

**Activities:** Operating manual and electric typewriters or word processors using a dictaphone to obtain information for typing; and combining some clerical work with typing duties.

**Occupations:**

- 0401-0301 Dictatypist
- 0401-0303 Typist-Clerk
- 0401-0305 Typist
- 0401-0307 Word Processor Operator
- 0401-0309 Telex Operator

**Related Occupations:**

- 0405 Office Business Machine and Electronic Data Processing Equipment Operators (Minor Group)

## MINOR GROUP 0403 BOOKKEEPING, BANKING AND INSURANCE ACCOUNT RECORDING AND RELATED OCCUPATIONS

This minor group contains occupations concerned with processing financial transactions, calculating costs, credit and debit items for accounts, handling cash and negotiable documents and maintaining statistical and other records. These procedures may involve using electrical or electronic machines.

Occupations in this minor group are classified into the following unit groups:

### 0403-01 BOOKKEEPERS AND ACCOUNTING CLERKS

### 0403-03 BANK TELLERS AND CLERKS

### 0403-05 INSURANCE CLERKS

### 0403-07 STATISTICAL CLERKS

### 0403-99 OTHER BOOKKEEPING, BANKING AND INSURANCE RECORDING AND RELATED OCCUPATIONS

#### 0403-01 BOOKKEEPERS AND ACCOUNTING CLERKS

This unit group covers occupations which are concerned with recording financial information for management.

**Entry Requirements:** Year 10-12 and, in some cases, a para-professional certificate and up to 4 years' experience.

**Activities:** Complete recording of financial transactions and production costs; verification of recorded transactions; invoice and account processing; wage and salary compilation; and attendance records.

**Occupations:**

- 0403-0101 Bookkeeper
- 0403-0103 Cost Clerk
- 0403-0105 Audit Clerk
- 0403-0107 Accounts Clerk
- 0403-0109 Cashier, Office
- 0403-0111 Payroll Clerk
- 0403-0113 Bank Accountant/Branch Accountant
- 0403-0115 Credit Officer

**0403-03 BANK TELLERS AND CLERKS**

This unit group covers occupations concerned with handling money in banks and related financial institutions.

**Entry Requirements:** Year 11-12 and, in some cases, 1 year's experience.

**Activities:** Counting and verifying amounts of money upon receipt or payment; recording each transaction and issuing receipts; receiving and changing money; and providing management with records of cash transactions.

**Occupations:**

- 0403-0301 Bank Teller
- 0403-0303 Bank Officer

**0403-05 INSURANCE CLERKS**

This unit group covers occupations concerned with the various forms of documentation necessary in insurance organisations.

**Entry Requirements:** Year 11-12.

**Activities:** Accepting, processing and paying insurance claims; account recording; and performing receipt payment and recording duties.

**Occupations:**

- 0403-0501 Clerk, General Insurance
- 0403-0503 Clerk, Policy Holder Services
- 0403-0599 Insurance Clerks, nec

**Related Occupations:**

- 0403-0701 Actuarial Clerk

**0403-07 STATISTICAL CLERKS**

This unit group covers occupations concerned with compiling statistics based on routine or special information, preparing tables, graphs and reports, and assisting in the interpretation of statistical studies.

**Entry Requirements:** Year 10-12.

**Activities:** Compiling statistics; using calculating machines for computations; updating information in computer files; assembling and classifying statistics; preparing tables, graphs and reports; and verifying authenticity of source material.

**Occupations:**

- 0403-0701 Actuarial Clerk
- 0403-0703 Statistical Clerk

**0403-99 OTHER BOOKKEEPING, BANKING AND INSURANCE ACCOUNT RECORDING AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with bookkeeping, banking and insurance account recording work, which are not elsewhere classified in Minor Group 0403.

**Entry Requirements:** Year 10-12.

**Activities:** Recording, checking, listing, transferring and detailing information regarding customers and clients of share businesses; funding of finance organisations; and disbursing payment of claims or accounting for funds and contributions, either by manual or computerised means.

**Occupations:**

- 0403-9901 Scrip Clerk, Stockbroking
- 0403-9903 Invoice Clerk
- 0403-9999 Other Bookkeeping, Banking and Insurance Account Recording Occupations, nec

**MINOR GROUP 0405****OFFICE BUSINESS MACHINE AND ELECTRONIC DATA PROCESSING EQUIPMENT OPERATORS**

This minor group contains occupations concerned with operating electrical and electronic keyboard machines used for classifying, computing and transferring data; recording, extracting, comparing and reporting information; reproducing copies; and preparing mail for distribution.

Occupations in this minor group are classified into the following unit groups:

0405-01 OFFICE BUSINESS MACHINE OPERATORS

0405-03 ELECTRONIC DATA PROCESSING EQUIPMENT OPERATORS

**0405-01 OFFICE BUSINESS MACHINE OPERATORS**

This unit group covers occupations concerned with the operation of various office business machines to facilitate the recording and processing of data.

**Entry Requirements:** Year 11 and/or a basic vocational/para-professional qualification and up to one year's experience.

**Activities:** Operating keyboard machines used for automatic or semi-automatic bookkeeping; billing, adding, calculating, accounting, coding, recording and classifying data; and preparing mail by machine for distribution.

**Occupations:**

- 0405-0101 Accounting Machinist
- 0405-0103 Calculator Operator
- 0405-0199 Office Business Machine Operators, nec

**Related Occupations:**

- 0405-03 Electronic Data Processing Equipment Operators (Unit Group)

0401-03 Typists and Typist-Clerks (Unit Group)

**0405-03 ELECTRONIC DATA PROCESSING EQUIPMENT OPERATORS**

This unit group covers occupations concerned with operating electronic and electro-mechanical data processing machines.

**Entry Requirements:** Year 10-12 and, in some cases, a basic vocational/para-professional certificate and up to 1 year's related work experience.

**Activities:** Using keyboards in recording, storing, processing and transcribing data to and from punch cards, paper, magnetic tape, discs or other material; and operating machines that are used to solve mathematical, engineering or technical problems, and to print and supply this data.

**Occupations:**

- 0405-0301 Computer Operator
- 0405-0303 Computer Peripheral Equipment Operator
- 0405-0305 Remote Computer Terminal Operator
- 0405-0307 Key Punch Operator

0405-0309 Automatic Data-Transceiver Operator  
 0405-0311 Keyboard Operator/Assembler  
 0405-0399 Electronic Data Processing Equipment Operators, nec

**Related Occupations:**

0405-01 Office Business Machine Operators (Unit Group)

## MINOR GROUP 0407

### SCHEDULING, DISPATCHING AND MATERIAL RECORDING OCCUPATIONS

This minor group contains occupations concerned with preparing work and production schedules; keeping records relating to receiving, storing, issuing, shipping, requisitioning and accounting for materials and expediting and controlling the flow of materials.

Occupations in this minor group are classified into the following unit groups:

0407-01 PRODUCTION AND SCHEDULING CLERKS

0407-03 SHIPPING, TRANSPORT, RECEIVING AND STORES CLERKS

0407-05 STOCK CLERKS AND RELATED OCCUPATIONS

0407-07 WEIGHERS

#### 0407-01 PRODUCTION AND SCHEDULING CLERKS

This unit group covers occupations concerned with co-ordinating and expediting the flow of work and materials.

**Entry Requirements:** Year 10-12 with up to 4 years' experience and, in some cases, a para-professional/associate diploma qualification.

**Activities:** Examining orders for goods and services; preparing work or production schedules to ensure time limits are met; routing and delivering parts for fabricating or repair operations to ensure production quotas are maintained; and compiling records and reports.

**Occupations:**

0407-0101 Production/Scheduling Clerk

**Related Occupations:**

0103-07 Production Managers (Unit Group)

#### 0407-03 SHIPPING, TRANSPORT, RECEIVING AND STORES CLERKS

This unit group covers clerical occupations concerned with controlling the movement of goods.

**Entry Requirements:** Year 10-12 with 1-3 years' experience and, in some cases, a basic vocational certificate.

**Activities:** Documenting, recording, verifying, unpacking, sorting, addressing, stamping, loading, dispatching and receiving goods or equipment or messages; and co-ordinating and rostering staff and vehicles to be available for transportation services.

**Occupations:**

0407-0301 Import Freight Clerk  
 0407-0303 Export Freight Clerk  
 0407-0305 Shipping Clerk  
 0407-0307 Receiving Clerk  
 0407-0309 Roster Clerk  
 0407-0311 Trucks Clerk  
 0407-0313 Wharf Clerk  
 0407-0315 Freight Clerk  
 0407-0317 Dispatcher, Radio  
 0407-0319 Load Controller, Air Transport  
 0407-0321 Inspector, Bus/Tram  
 0407-0323 Train Controller

0407-0325 Storeman/woman

0407-0399 Shipping, Transport, Receiving and Stores Clerks, nec

**Related Occupations:**

0407-05 Stock Clerks and Related Occupations (Unit Group)

#### 0407-05 STOCK CLERKS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with storing and recording goods and material.

**Entry Requirements:** Year 10-11 with from 1-5 years' experience and, in some cases, a basic vocational/para-professional certificate.

**Activities:** Receiving, storing, recording and distributing supplies, material and equipment; taking inventories; estimating future requirements; maintaining records; and pricing and requisitioning stock.

**Occupations:**

0407-0501 Stores Clerk  
 0407-0503 Purchasing Clerk  
 0407-0505 Warranty Clerk  
 0407-0507 Tally Clerk  
 0407-0599 Stock Clerks and Related Occupations, nec

#### 0407-07 WEIGHERS

This unit group covers occupations concerned with weighing materials, products and vehicles, and keeping relevant records.

**Entry Requirements:** Year 9-10 plus up to 1 year's related work experience.

**Activities:** Operating a weighbridge or platform and recording gross and net weight; weighing material or components on balance, platform or floor scales for various production processes; keeping records of material weighed; using balance scales in food or drug production and recording information; and weighing of animals, carcasses and other items.

**Occupations:**

0407-0701 Licensed Weigher  
 0407-0703 Weigher, Production  
 0407-0705 Weigher, Drug and Toilet Goods  
 0407-0799 Weighers, nec

## MINOR GROUP 0409

### LIBRARY, FILE, CORRESPONDENCE CLERKS AND RELATED OCCUPATIONS

This minor group contains occupations concerned with classifying, recording, issuing and lending library material including books, films and other archives, keeping records of correspondence and corresponding with clients or customers.

Occupations in this minor group are classified into the following unit groups:

#### 0409-01 LIBRARY AND FILE CLERKS

#### 0409-03 CORRESPONDENCE CLERKS AND RELATED OCCUPATIONS

##### 0409-01 LIBRARY AND FILE CLERKS

This unit group covers clerical occupations concerned with recording, classifying and filing publications, correspondence and other material in offices and libraries.

**Entry Requirements:** Year 10-11.

**Activities:** Lending or issuing books, films and recordings; searching for and compiling information; issuing files; updating library catalogues, file indexes and records; and examining, sorting and filing correspondence and other data.

**Occupations:**

- 0409-0101 Library Attendant
- 0409-0103 File and Classification Clerk
- 0409-0105 Tape Librarian
- 0409-0107 File Clerk

**Related Occupations:**

- 0311-9907 Library Technician

##### 0409-03 CORRESPONDENCE CLERKS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with preparing and composing correspondence.

**Entry Requirements:** Year 10-12 with up to 1 year's related work experience.

**Activities:** Making records; examining documents to obtain, verify and record information; and recording, classifying and corresponding in various ways with persons concerned.

**Occupations:**

- 0409-0301 Circulation Representative
- 0409-0303 Meter Records Clerk
- 0409-0305 Correspondence Clerk
- 0409-0307 Sales Clerk
- 0409-0309 Sorter (Clerical)
- 0409-0399 Correspondence Clerks and Related Occupations, nec

## MINOR GROUP 0411

### RECEPTION, INFORMATION, MAIL AND MESSAGE DISTRIBUTION OCCUPATIONS

This minor group contains occupations concerned with receiving clients and other customers in offices, business establishments and hospitals and providing or transmitting information relating to services, appointments and referrals; sorting, delivering and receiving mail and other written and verbal messages; and general clerical duties.

Occupations in this minor group are classified into the following unit groups:

#### 0411-01 RECEPTIONISTS AND INFORMATION CLERKS

#### 0411-03 POSTAL SERVICE OCCUPATIONS

#### 0411-05 TELEPHONISTS AND PHONOGRAM OPERATORS

#### 0411-07 MESSENGERS

##### 0411-01 RECEPTIONISTS AND INFORMATION CLERKS

This unit group covers occupations concerned with receiving customers or clients and providing information.

**Entry Requirements:** Year 10-11 plus up to 2 years' related work experience or a para-professional certificate.

**Activities:** Receiving clients and customers and answering telephone enquiries in offices, business establishments and hospitals, and providing information on such matters as appointments, accounts, services and general queries. May carry out typing and general office duties.

**Occupations:**

- 0411-0101 Receptionist
- 0411-0103 Information Clerk
- 0411-0105 Hospital Admitting Clerk

**Related Occupations:**

- 0411-05 Telephonists and Phonogram Operators (Unit Group)

##### 0411-03 POSTAL SERVICE OCCUPATIONS

This unit group covers occupations concerned with the general provision of postal services within establishments such as mail exchanges, mail processing centres and post offices.

**Entry Requirements:** Year 10-12.

**Activities:** Selling postal items; giving advice on postal matters to the public; and sorting, delivering, loading and unloading mail.

**Occupations:**

0411-0301	Postal Clerk
0411-0303	Mail Officer
0411-0305	Postal Officer
0411-0307	Postman/woman

**0411-05 TELEPHONISTS AND PHONOGRAM OPERATORS**

This unit group covers occupations concerned with operating public and private telephone switchboards to relay incoming and outgoing calls.

**Entry Requirements:** Year 10 and up to 1 year's related work experience.

**Activities:** Operating telephone switchboards; relaying incoming, inter-office and outgoing calls; giving information; determining charges and keeping related records; and relaying telegrams. May carry out typing and other clerical duties.

**Occupations:**

0411-0501	Telephonist, Telecommunications
0411-0503	Telephonist, Switchboard
0411-0505	Telephone Answering-Service Operator
0411-0507	Phonogram Operator

**Related Occupations:**

0411-01	Receptionists and Information Clerks (Unit Group)
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**0411-07 MESSENGERS**

This unit group covers occupations concerned with running errands, sorting, delivering and collecting messages, papers, packages and letters.

**Entry Requirements:** Possession of a driver's licence.

**Activities:** Collecting, sorting and delivering items or messages; accepting payment for services; riding motorcycles, scooters or bicycles; and driving courier cars and vans.

**Occupations:**

0411-0701	Messenger
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**Related Occupations:**

0901-0307	Courier, Road Transport
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## MINOR GROUP 0499 OTHER CLERICAL AND RELATED OCCUPATIONS

This minor group contains clerical occupations not elsewhere classified which tend to be located in specific office environments - for example schools, collection agencies, and Sheriff's offices, and carrying out a specialised range of duties.

Occupations in this minor group are classified into the following unit groups:

- 0499-01 COLLECTION CLERKS
- 0499-03 TEACHERS' AIDES
- 0499-05 PERSONNEL CLERKS
- 0499-07 CLERICAL ASSISTANTS
- 0499-09 LEGAL AND RELATED CLERICAL OCCUPATIONS
- 0499-99 OTHER CLERICAL AND RELATED OCCUPATIONS

**0499-01 COLLECTION CLERKS**

This unit group covers occupations concerned with collecting payments or instalments or overdue accounts, and tracing whereabouts of customers.

**Entry Requirements:** Year 10-12 and related work experience.

**Activities:** Tracing debtors; collecting all or part of overdue accounts; recording payments; notification of overdue amounts; collection of coins from self service points and machines; and accepting prepayment on articles set aside for collection.

**Occupations:**

0499-0101	Debt Collector
0499-0103	Collection Clerk
0499-0105	Collector, Parking Meter

**0499-03 TEACHERS' AIDES**

This unit group covers occupations concerned with providing clerical assistance to teachers in classrooms.

**Entry Requirements:** Year 10-12 plus up to 3 months' related experience.

**Activities:** Preparing lesson material; recording information on pupils; attending to pupils' needs; assisting in supervising pupils; and other general duties.

**Occupations:**

0499-0301	Teacher's Aide
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**0499-05 PERSONNEL CLERKS**

This unit group covers clerical occupations concerned with compiling and maintaining personnel information.

**Entry Requirements:** Year 11-12 with up to 1 year's related work experience.

**Activities:** Maintaining personnel files; processing employment applications and handling routine correspondence; and recording information for use by management in regard to staff recruitment, training, promotions, attendance, retirement, termination and superannuation.

**Occupations:**

0499-0501	Personnel Records Clerk
0499-0503	Work Study Officer
0499-0505	Employment Officer

**Related Occupations:**

0213-05	Personnel Specialists (Unit Group)
0103-11	Personnel and Industrial Relations Managers (Unit Group)

**0499-07 CLERICAL ASSISTANTS**

This unit group covers occupations not elsewhere classified concerned with providing general clerical assistance.

**Entry Requirements:** Year 10-11.

**Activities:** Performing a variety of office duties such as operating photocopy machines, answering telephones, filing and running errands.

**Occupations:**

0499-0701 Clerical Assistant

**0499-09 LEGAL AND RELATED CLERICAL OCCUPATIONS**

This unit group covers occupations which perform clerical and administrative duties associated with courts and other legal processes.

**Entry Requirements:** Year 11-12 and up to 5 years' experience.

**Activities:** Serving legal orders and documents; collecting fines and other monies; advising the public on services and rosters; keeping records; maintaining order in courtrooms; and providing specialised administrative and clerical support to legal practitioners.

**Occupations:**

0499-0901 Sheriff  
0499-0903 Bailiff  
0499-0905 Judge's Associate  
0499-0907 Law Clerk

0499-0909 Clerk of Court  
0499-0911 Title Searcher  
0499-0913 Process Server

**0499-99 OTHER CLERICAL AND RELATED OCCUPATIONS**

This unit group covers various clerical occupations not elsewhere classified.

**Activities:** Dispatching duties; relaying messages and information; reading meters; proof-reading; monitoring and marking information; title searching; assisting in legal matters; serving court orders; accepting advertising material; checking credit applications; and other various compiling, duplicating, photocopying, embossing, addresssing, folding, inserting and recording tasks.

**Occupations:**

0499-9901 General Clerk  
0499-9903 Meter Reader  
0499-9905 Blueprint Machine Operator  
0499-9907 Embossing Machine Operator  
0499-9909 Envelope Sealing and Imprinting Tender  
0499-9911 Proof-Reader  
0499-9913 Classified Advertising Clerk  
0499-9915 Bookmaker  
0499-9917 Bookmaker's Clerk  
0499-9919 Property Supervisor (Performing Arts)  
0499-9921 Tracer  
0499-9999 Other Clerical and Related Occupations, nec

## **MAJOR GROUP 05 SALES OCCUPATIONS**

This major group contains occupations concerned with selling goods and services or authorities to obtain goods and services, and with advising on the purchase of goods, services and negotiable instruments. Entry requirements are generally Year 10-12, but several occupations require a specialist knowledge of the product or service being sold and this may be gained through a course of formal study. Those occupations concerned with the direct provision of services are located in Major Group 06: SERVICE OCCUPATIONS.

Occupations in this major group are classified into the following minor groups:

0501 INVESTMENT, INSURANCE AND REAL ESTATE  
OCCUPATIONS

0503 SALES REPRESENTATIVES

0505 SALESPERSONS AND RELATED OCCUPATIONS

## MINOR GROUP 0501

### INVESTMENT, INSURANCE AND REAL ESTATE OCCUPATIONS

This minor group contains occupations concerned with advising clients and selling non consumer goods and negotiable instruments such as real estate, insurance and securities. Entry requirements vary from Year 10-12 through to completion of a degree.

Occupations in this minor group are classified into the following unit groups:

- 0501-01 SECURITIES AND FINANCE DEALERS
- 0501-03 INSURANCE BROKERS AND AGENTS
- 0501-05 REAL ESTATE AGENTS AND MANAGERS
- 0501-99 OTHER INVESTMENT, INSURANCE AND REAL ESTATE OCCUPATIONS

#### 0501-01 SECURITIES AND FINANCE DEALERS

This unit group covers occupations concerned with providing advice and assistance to employers and clients relating to investment in securities and other negotiable documents.

**Entry Requirements:** A degree/diploma in an appropriate area, or Year 10-12 and up to 5 years' experience.

**Activities:** Advising assigned or referred clients on investment matters; controlling, organising and directing the operations and policies of a stockbroking firm; preparing reports for management board on analysis of market trends; and buying and selling stock for individuals or organisations.

**Occupations:**

- 0501-0101 Corporate Finance Officer
- 0501-0103 Investment Adviser/Dealer
- 0501-0105 Securities Dealer

#### 0501-03 INSURANCE BROKERS AND AGENTS

This unit group covers occupations concerned with selling or soliciting sales of insurance or assurance to individuals, businesses and organisations acting as independent agents or employees of insurance companies.

**Entry Requirements:** A para-professional certificate and 2 years' experience before registration.

**Activities:** Compiling lists of prospective customers; interviewing; analysing needs; explaining policies, risks covered, rates and benefits of policies offered; and making recommendation and adjustments according to client's needs.

**Occupations:**

- 0501-0301 Insurance Broker
- 0501-0303 Insurance Inspector (Fire and General Insurance)
- 0501-0305 Life Assurance Representative

#### 0501-05 REAL ESTATE AGENTS AND MANAGERS

This unit group covers occupations concerned with carrying out estimation of market value of properties, arranging the buying, selling or leasing of real property.

**Entry Requirements:** Year 10-12, and for a valuer of real estate a para-professional certificate together with 2 years' experience before registration.

**Activities:** Acting as agent for buyer or seller of real estate; submitting documentary evidence for valuation; obtaining details of land or buildings for sale or lease; assisting with forms of sale or lease; advertising; liaising with other agents; interviewing prospective tenants; accompanying clients to view properties, vacant or to become vacant; investigating references; conducting property inspection; and accepting deposits or collecting rent.

**Occupations:**

- 0501-0501 Real Estate Agent
- 0501-0503 Property Manager (Real Estate)
- 0501-0505 Valuer (Real Estate)

#### 0501-99 OTHER INVESTMENT, INSURANCE AND REAL ESTATE OCCUPATIONS

This unit group covers occupations concerned with dealing for profit in the money market, within the guidelines established by senior management for clients or for the firm; or assessing the value of goods and merchandise for private, commercial or institutional clients.

**Entry Requirements:** Year 10-12, and experience in some cases, of 4-5 years.

**Activities:** Dealing in the money market, negotiating with the borrowers and lenders for the purpose of executing profitable financial transactions; co-ordinating the activities of merchants who buy and sell commodities other than stocks and shares on behalf of producers; acting as agent of securities dealer in the buying and selling of stocks and other securities on the instruction of the firms clients; and examining items and setting a valuation, backed by a written assessment for commercial equipment, merchandise, personal and household effects and objects of art for private, commercial or institutional clients.

**Occupations:**

- 0501-9901 Dealer, Money Market
- 0501-9903 Grain Broker
- 0501-9905 Trading Floor Operator (Stockbroking)
- 0501-9907 Valuer (General)

## MINOR GROUP 0503

### SALES REPRESENTATIVES

This minor group contains occupations concerned with acting as the representative of a company selling goods or services, soliciting orders for the company's products, demonstrating their effectiveness and

carrying out after sales service and liaison between customers and parent company. Entry requirements are generally Year 10 and on-the-job training and in certain technical and scientific areas, a degree or trade qualification as appropriate.

Occupations in this minor group are classified into the following unit groups:

**0503-01 SCIENTIFIC SALES REPRESENTATIVES**

**0503-03 TECHNICAL SALES REPRESENTATIVES**

**0503-05 SALES REPRESENTATIVES AND AGENTS (SERVICES)**

**0503-07 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS)**

**0503-01 SCIENTIFIC SALES REPRESENTATIVES**

This unit group covers occupations concerned with representing companies on technical matters and soliciting orders for and selling of chemical products, of electronic data processing equipment or medical and dental equipment to wholesale, retail, industrial, professional or other establishments.

**Entry Requirements:** An appropriate degree with at least 3 years' experience.

**Activities:** Becoming familiar with, and assessing the characteristics of products to be sold; visiting and maintaining contact with existing customers and developing new contacts; explaining and demonstrating products to customers and potential customers; quoting prices and credit terms; recording orders and arranging for delivery and/or installation of products sold; making follow-up visits as necessary to ensure customer satisfaction or advise on use and maintenance of products; keeping abreast of technical developments in the field; and conveying to employers information about competitive strength or weaknesses of products.

**Occupations:**

- 0503-0101 Sales Representative (Chemical Products)
- 0503-0103 Sales Representative (EDP)
- 0503-0105 Sales Representative (Medical and Dental Equipment and Supplies)

**0503-03 TECHNICAL SALES REPRESENTATIVES**

This unit group covers occupations concerned with representing companies on technical matters and soliciting orders for and selling of electronic equipment other than electronic data processors; of special industrial machinery and equipment, or of farm and construction equipment, business machines, electrical/electronic equipment and other fabricating or processing equipment to wholesale, retail, industrial, professional or other establishments.

**Entry Requirements:** An appropriate 4 year trade or post trade qualification with up to 3 years' experience.

**Activities:** Becoming familiar with, and assessing the characteristics of products to be sold; visiting and maintaining contact with existing customers and developing new contacts; explaining/demonstrating products to customers and potential customers; advising on possible modifications which would make products more acceptable to customers; quoting prices and credit terms; recording orders and arranging for delivery and/or installation of products sold; making follow-up visits as necessary to ensure customer satisfaction or advise on use or maintenance of products; keeping abreast of technical developments in the field; and conveying to employers information about competitive strength or weakness of products.

**Occupations:**

- 0503-0301 Sales Representative (Electronic Equipment, Except EDP)
- 0503-0303 Sales Representative (Industrial Machinery and Equipment)
- 0503-0305 Sales Representative (Machinery/Equipment)

**0503-05 SALES REPRESENTATIVES AND AGENTS (SERVICES)**

This unit group covers occupations concerned with soliciting orders for and selling services to wholesale, retail, industrial, professional or other establishments and to individuals.

**Entry Requirements:** Year 10-12 and up to 2 years' experience in a related sales capacity.

**Activities:** Becoming familiar with, and assessing the characteristics of services to be offered; visiting and maintaining contact with existing customers and developing new contacts; explaining services to customers and potential customers; advising on possible modifications which would make services more acceptable to customers; quoting prices and credit terms; recording orders and arranging for delivery of services; making follow-up visits as necessary to ensure customer satisfaction; keeping abreast of developments or changes to the services available; and conveying to employer information about the competitive strength or weaknesses of services.

**Occupations:**

- 0503-0501 Sales Representative (Advertising)
- 0503-0503 Sales Representative (Business Services)
- 0503-0505 Sales Representative (Freight Services)
- 0503-0507 Sales Representative (Printing)
- 0503-0599 Sales Representatives and Agents (Services), nec

**0503-07 SALES REPRESENTATIVES AND AGENTS (OTHER PRODUCTS)**

This unit group covers occupations concerned with representing a company in order to solicit sales of products in an allocated geographical area to wholesale, retail, industrial, professional or other establishments.

**Entry Requirements:** Year 10 and 1 year's experience in a related sales capacity.

**Activities:** Becoming familiar with and assessing the characteristics of the products to be sold; compiling lists of prospective customers for use as sales leads, based on information from newspapers, business directories, and other sources; travelling through assigned territory to call on regular and prospective customers to solicit orders or talking with customers on sales floor or by phone; displaying or demonstrating products, using samples or catalogues and emphasising saleable features; quoting prices and credit terms and preparing sales contracts for orders obtained; estimating date of delivery based on knowledge of own firm's production and delivery schedules; making suggestions for promotion of goods to clients; preparing reports of business transactions and keeping expense accounts. Representatives tend to specialise in a particular product or narrow range of products.

**Occupations:**

- 0503-0701 Manufacturer's Agent
- 0503-0703 Sales Representative (Books/Paper Products)
- 0503-0705 Sales Representative (Builders' Hardware/Timber)
- 0503-0707 Sales Representative (Farm Properties/Supplies)

0503-0709	Sales Representative (Floor Coverings/ Furniture)	0503-0721	Sales Representative (Musical Goods)
0503-0711	Sales Representative (Food/Drink/Tobacco Products)	0503-0723	Sales Representative (Pharmaceuticals/ Toiletries)
0503-0713	Sales Representative (Household Goods/ Domestic Hardware)	0503-0725	Sales Representative (Photographic Equipment/Supplies)
0503-0715	Sales Representative (Jewellery/Watches)	0503-0727	Sales Representative (Textiles/Clothing/ Footwear)
0503-0717	Sales Representative (Minerals/Metals)	0503-0729	Sales Representative (Toys/Sporting Goods)
0503-0719	Sales Representative (Motor Vehicles/Cycles/ Caravans/Boats/Petrol and Tyres)		

## MINOR GROUP 0505

### SALESPERSONS AND RELATED OCCUPATIONS

This minor group contains occupations concerned with the preparation and demonstration of goods and services for sale and with selling in retail and wholesale establishments, door-to-door and street soliciting, at drive-in or self-service coin operated service facilities, or in any other circumstances not elsewhere classified in this major group. Entry requirements are generally Year 10 with some on-the-job training.

Occupations in this minor group are classified into the following unit groups:

- 0505-01 SALES ASSISTANTS (SALESPERSONS)
- 0505-03 STREET VENDORS, CANVASSERS AND SALES DRIVERS
- 0505-05 DRIVEWAY ATTENDANTS AND CHECKOUT OPERATORS
- 0505-99 OTHER SALESPERSONS AND RELATED OCCUPATIONS

#### 0505-01 SALES ASSISTANTS (SALESPERSONS)

This unit group covers occupations concerned with presenting for sales and demonstrating and selling products in wholesale and retail establishments.

**Entry Requirements:** Year 10.

**Activities:** Ascertaining make, type and quality of merchandise required by customers; applying knowledge of the characteristics, quality and merits of items sold to suggest selection to meet the customer's needs; displaying merchandise or demonstrating article; quoting or estimating prices, credit forms, trade-in allowances and delivery dates; advising on use and care of merchandise; preparing sales docket, invoice or contract; setting up display of products in window or on sales floor; checking stock and may requisition merchandise from stockroom or warehouse; dealing with telephone or postal inquiries. Most salespersons tend to stay within an area of merchandising, such as hardware or food products or clothing and textiles.

##### Occupations:

- 0505-0101 Salesperson (Domestic Hardware)
- 0505-0103 Salesperson (Fabrics, Clothing/Footwear)
- 0505-0105 Salesperson (Food/Drink Products)
- 0505-0107 Salesperson (Furniture/Floor Coverings)
- 0505-0109 Salesperson (Household Appliances/Radio/  
Television)
- 0505-0111 Salesperson (Motor Vehicles/Boats/Caravans/  
Motor Cycles)
- 0505-0113 Salesperson (Musical Equipment/Goods)
- 0505-0115 Salesperson (Newspaper/Books/Stationery)
- 0505-0117 Salesperson (Pharmaceutical Products/  
Toiletries)
- 0505-0119 Salesperson (Photographic Equipment/  
Supplies)
- 0505-0121 Salesperson (Plants/Seeds/Gardening  
Supplies)
- 0505-0123 Salesperson (Tyres/Vehicle Accessories)
- 0505-0125 Salesperson (Sports Equipment/Toys)
- 0505-0127 Salesperson (Watches/Jewellery)

#### 0505-03 STREET VENDORS, CANVASSERS AND SALES DRIVERS

This unit group covers occupations concerned with buying and selling scrap metal or materials, such as rags, bottles, rubber and other odd items; selling or soliciting orders on the street or from door-to-door.

**Entry Requirements:** Year 9-10 in some cases.

**Activities:** Buying scrap materials such as metal, rags, bottles, rubber and other odd items from commercial, industrial and private householders and the selling of same by way of contract or other means; selling goods such as books, beauty aids, fruit and vegetables and newspapers and periodicals on the street or from door-to-door, using push cart, stand, carry case or motor vehicle, or may simply spread wares on footpath; and may attract attention by play-acting or calling out.

##### Occupations:

- 0505-0301 Buyer (Scrap)
- 0505-0303 News Vendor
- 0505-0305 Representative (Metal Merchant)
- 0505-0307 Salesperson (Cash Van Sales)
- 0505-0309 Salesperson (Door-to-Door)
- 0505-0311 Street Vendor
- 0505-0313 Supervisor (Cash Van Sales)
- 0505-0315 Sales Supervisor (Door-to-Door Sales)
- 0505-0317 Sales Supervisor (Newspaper Sales)

#### 0505-05 DRIVEWAY ATTENDANTS AND CHECKOUT OPERATORS

This unit group covers occupations concerned with selling products or services at drive-in facilities, or with operating checkouts.

**Entry Requirements:** Year 9-10 in some cases.

**Activities:** Taking orders from customers; receiving money for the supply of fuel, lubricants, accessories or food, tickets and tokens; advising customers on the use of mechanisms for self-service. May involve simple maintenance of equipment or arranging for equipment to be serviced; emptying coin or

token container; cleaning the selling or service area; and directing customers to correct location within establishments.

**Occupations:**

0505-0501 Service Station Attendant  
0505-0503 Check-out Operator  
0505-0505 Drive-in Attendant (Theatre)  
0505-0507 Drive-in Attendant (Food)

**0505-99 OTHER SALESPERSONS AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with selling or presenting goods for sale which are not elsewhere classified in Minor Group 0505: SALESPERSONS AND RELATED OCCUPATIONS.

**Entry Requirements:** Year 9-10 and, in some cases, experience of up to 2 years. An auctioneer requires basic vocational training for 1-5 years and experience of 1 year.

**Activities:** Advancing money on goods lodged for security; demonstrating goods for sale; auctioning or assisting in the auctioning of goods at a licensed auction room; general counter sales work; receiving and giving goods that have been serviced; arranging travel formalities; making reservations and selling tickets; and renting goods for short term use.

**Occupations:**

0505-9901 Auctioneer  
0505-9903 Auction Room Attendant  
0505-9905 Demonstrator (Sales)  
0505-9907 Pawnbroker  
0505-9909 Rental Salesperson  
0505-9911 Salesperson (Services, General)  
0505-9913 Conductor (Bus/Tram)  
0505-9915 Ticket Salesperson  
0505-9917 Travel Agent  
0505-9999 Other Salespersons and Related Occupations, nec

## **MAJOR GROUP 06**

### **SERVICE OCCUPATIONS**

This major group contains non-manual occupations concerned with providing services, except those requiring a professional, para-professional or trade qualification. Professional occupations providing services are classified in Major Group 02: PROFESSIONAL OCCUPATIONS; Para-professional occupations providing services are classified in Major Group 03: PARA-PROFESSIONAL OCCUPATIONS. Trades occupations providing services are classified in Major Group 07: TRADES AND OTHER SKILLED OCCUPATIONS (EXCEPT AGRICULTURE). If an occupation principally involves selling a service rather than providing it, the occupation is classified in Major Group 05: SALES OCCUPATIONS.

Entry requirements are not formal in many cases, but in others they vary from Year 10-12, and on-the-job training is usual. Short para-professional courses are available in some areas.

Minor groups in this major group are distinguished on the basis of the type of service provided; unit groups use the same criterion more narrowly defined.

Occupations in this major group are classified into the following minor groups:

- 0601 PROTECTIVE AND INVESTIGATIVE SERVICE  
OCCUPATIONS
- 0603 FOOD AND BEVERAGE PREPARATION AND SERVICE  
OCCUPATIONS
- 0605 ACCOMMODATION SERVICE OCCUPATIONS
- 0607 PERSONAL SERVICE OCCUPATIONS
- 0609 HEALTH AND WELFARE SERVICE OCCUPATIONS
- 0611 OTHER SERVICE OCCUPATIONS
- 0699 OTHER INVESTIGATORY AND PROTECTIVE  
OCCUPATIONS

## MINOR GROUP 0601

### PROTECTIVE AND INVESTIGATIVE SERVICE OCCUPATIONS

This minor group contains occupations concerned with protecting persons and goods against hazards such as crime, fire and breaches of regulations, and investigating such matters to detect the persons responsible or remedy faults. Entry requirements vary from no formal requirements to Year 12 with para-professional qualifications.

Occupations in this minor group are classified into the following unit groups:

- 0601-01 POLICE OFFICERS
- 0601-03 FIRE FIGHTERS
- 0601-05 PRISON OFFICERS
- 0601-07 INVESTIGATORY OCCUPATIONS
- 0601-09 INSPECTORS AND REGULATORY OFFICERSrs
- 0601-11 GUARDS AND RELATED SECURITY OCCUPATIONS
- 0601-99 OTHER INVESTIGATORY AND PROTECTIVE OCCUPATIONS

#### 0601-01 POLICE OFFICERS

This unit group covers occupations concerned with protecting the public and maintaining law and order, and general police duties of prevention, detection and control of crime and assistance to the public. Entry Requirements: A basic vocational/para-professional certificate and up to 10 years' experience; a degree/diploma is required for some specialist occupations.

**Activities:** Detecting and preventing crime; directing and controlling traffic; investigating and apprehending persons suspected of breaking the law; locating lost or missing persons and property; and participating in air/sea rescue services.

**Occupations:**

- 0601-0101 Police Officer, General Duties
- 0601-0103 Detective
- 0601-0105 Police Officer, Protective Service
- 0601-0107 Police Officer, Scientific Branch
- 0601-0199 Police Officers, nec

#### 0601-03 FIRE FIGHTERS

This unit group covers occupations concerned with fighting fires, protecting life and property.

**Entry Requirements:** Year 10-11.

**Activities:** Attending fires in buildings, forests (bushland or grass), on aircraft or elsewhere within area of responsibility; rescuing persons in fires or accidents; supplying first aid when necessary; participating in fire drills or displays; and using and maintaining hoses, chemical sprays and other fire-fighting equipment.

**Occupations:**

- 0601-0301 Airport Fire-Fighter
- 0601-0303 Fire-Fighter (General)

#### 0601-05 PRISON OFFICERS

This unit group covers occupations concerned with guarding inmates of prisons and reformatories, and controlling their daily activities.

**Entry Requirements:** Year 9.

**Activities:** Confining prisoners to cells or rooms and releasing from same; supervising of exercise, meals and work periods; searching prisoners and cells for contraband articles; observation of prisoners in cells or rooms; inspecting security measures; patrolling defined areas; directing and overseeing

visitors; supplying necessities; and applying first aid when needed.

**Occupations:**

- 0601-0501 Prison Officer

#### 0601-07 INVESTIGATORY OCCUPATIONS

This unit group covers occupations concerned with the location of missing persons, provision of information on various matters for private clients or commercial organisations; and detection and investigation of unlawful practices.

**Entry Requirements:** Year 10-12 and, in some cases, a para-professional certificate with 5 years' experience.

**Activities:** Investigating railway tickets, goods, property or equipment irregularities; liaising with police and preparing evidence; court appearances; patrol duties; apprehending suspects; private investigations to provide information to clients; investigating and detecting theft and irregularities in commercial organisations and liaising with police.

**Occupations:**

- 0601-0701 Railway Investigator
- 0601-0703 Inquiry Agent
- 0601-0799 Investigatory Occupations, nec

#### 0601-09 INSPECTORS AND REGULATORY OFFICERS

This unit group covers occupations concerned with enforcing adherence to regulations and advising on standards relating to health, safety, working conditions and the economy.

**Entry Requirements:** In most cases, a post-secondary qualification in an appropriate area and several years' experience.

**Activities:** Inspecting buildings under construction or already erected; sanitation of same; observing health and safety procedures in primary and secondary industry and commercial establishments; and enforcing governmental economic measures such as customs and taxation.

**Occupations:**

- 0601-0901 Customs Investigator
- 0601-0903 Safety Inspector
- 0601-0905 Primary Products Inspector, Animals
- 0601-0907 Sugar Cane Inspector
- 0601-0909 Primary Products Inspector, Plants
- 0601-0911 Health Inspector

0601-0913	Wildlife Officer
0601-0915	Fisheries Inspector
0601-0917	Arbitration Inspector
0601-0919	Stream Control Officer
0601-0921	Boring Inspector/Supervisor
0601-0923	Safety Officer
0601-0925	Area/Territory Supervisor, Service Stations
0601-0927	Accident Prevention Officer, Insurance
0601-0929	Traffic Inspector
0601-0931	Travel Accommodation Inspector
0601-0933	Fire Safety Inspector
0601-0935	Inspector, Humane Society
0601-0937	Patrolman/woman, Utilities
0601-0939	Train Examiner
0601-0941	Field Manager, Postal Services
0601-0999	Inspectors and Regulatory Officers, nec

#### **0601-11 GUARDS AND RELATED SECURITY OCCUPATIONS**

This unit group covers occupations concerned with the protection of property, delivery and safety of valuables, safety and control of patrons and other persons and surveillance of property and premises during and after business hours.

**Entry Requirements:** No formal requirements.

**Activities:** Patrolling property and buildings; apprehending trespassers; providing evidence; loading and delivery by armoured car of valuables; guarding places where valuables

are stored; answering alarm signals; liaising with police; overseeing behaviour of patrons and ensuring their compliance with regulations and house rules; the checking of aircraft passengers while boarding; and attending railway and school crossings.

#### **Occupations:**

0601-1101	Railway Patrol Officer
0601-1103	Armoured Car Driver/Escort
0601-1105	Security Officer
0601-1107	Front of House Security Officer
0601-1109	Security Officer, Airport Pre-Boarding
0601-1111	Guard, Railway
0601-1113	Security Officer, Mobile
0601-1115	Security Officer, Retail
0601-1199	Guards and Related Security Occupations, nec

#### **Related Occupations:**

0601-01	Police Officers (Unit Group)
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#### **0601-99 OTHER INVESTIGATORY AND PROTECTIVE OCCUPATIONS**

This unit group covers occupations not elsewhere classified, concerned with assisting the maintenance of law and order in a support capacity.

#### **Occupations:**

0601-9901	Aboriginal Police Aide
0601-9903	Police Cadet

## **MINOR GROUP 0603**

### **FOOD AND BEVERAGE PREPARATION AND SERVICE OCCUPATIONS**

This minor group contains occupations concerned with the preparation of food and beverages and serving them to customers. Occupations generally requiring trades qualifications are included in Major Group 07: **TRADES AND OTHER SKILLED OCCUPATIONS (EXCEPT AGRICULTURE)**. There are no formal entry requirements for these occupations.

Occupations in this minor group are classified into the following unit groups:

#### **0603-01 OTHER COOKS**

#### **0603-03 FOOD AND BEVERAGE SERVICE OCCUPATIONS**

##### **0603-01 OTHER COOKS**

This unit group covers occupations concerned with preparing and cooking meals of a less complex nature, often for small numbers of persons.

**Entry Requirements:** No formal entry requirements, however previous work experience in this area is desirable.

**Activities:** Planning menus; ordering supplies; cooking meals and arranging on plates and trays; and either serving customers or supervising serving staff.

#### **Occupations:**

0603-0101	Cook, Domestic
0603-0103	Cook, Fast Food
0603-0105	Short Order Cook
0603-0199	Other Cooks, nec

##### **0603-03 FOOD AND BEVERAGE SERVICE OCCUPATIONS**

This unit group covers occupations concerned with preparing and selling drinks, and serving food and beverages in formal and informal settings in hotels, clubs, restaurants, cafeterias, ships and railway dining cars.

**Entry Requirements:** In most cases a trade qualification or work experience.

**Activities:** Preparing the dining or refreshment area; greeting and seating customers; mixing and serving drinks; servicing of customers; taking payment for goods; and cleaning of tables.

#### **Occupations:**

0603-0301	Bar Attendant
0603-0303	Wine Waiter/Waitress
0603-0305	Host/Hostess
0603-0307	Waiter/Waitress, General

#### **Related Occupations:**

0505-01	Sales Assistants (Salespersons) (Unit Group)
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## MINOR GROUP 0605 ACCOMMODATION SERVICE OCCUPATIONS

This minor group contains occupations concerned with the provision of accommodation. There are no formal entry requirements for these occupations.

Occupations in this minor group are classified into the following unit groups:

### 0605-01 ACCOMMODATION SERVICE OCCUPATIONS

#### 0605-01 ACCOMMODATION SERVICE OCCUPATIONS

This unit group covers occupations concerned with providing accommodation services in establishments such as hotels, motels, apartment houses, office buildings, caravan parks, youth hostels and similar facilities on own or owner's behalf.

**Entry Requirements:** 1-10 year's related work experience and, in some cases, a para-professional/associate diploma qualification in an appropriate area.

**Activities:** Supervising staff in contact with residents, other staff engaged in maintaining the building and necessary

services; contact with owners or managing bodies; allocating accommodation; receiving payment; cleaning facilities; arranging for repairs and maintenance; providing information and ensuring comfort of lodgers; keeping accounts; and repairing faulty equipment or facilities.

#### Occupations:

- 0605-0101 Manager, Lodging Establishment
- 0605-0103 Park Manager, Caravan
- 0605-0105 Recreation Camp Warden
- 0605-0107 Caretaker
- 0605-0109 Housekeeper

## MINOR GROUP 0607 PERSONAL SERVICE OCCUPATIONS

This minor group contains occupations concerned with the provision of personal services to individuals. There are no formal entry requirements although basic vocational courses are available in some cases.

Occupations in this minor group are classified into the following unit groups:

### 0607-01 BEAUTICIANS AND RELATED OCCUPATIONS

### 0607-03 MASSAGE OCCUPATIONS

### 0607-99 OTHER PERSONAL SERVICE OCCUPATIONS

#### 0607-01 BEAUTICIANS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with the provision of facial and body care treatments to improve the condition of the skin and enhance the individual's appearance.

**Entry Requirements:** Satisfactory completion of an appropriate training course. In some States the possession of a hairdressing or beautician trade qualification is required.

**Activities:** Applying beauty preparations to the body to improve the skin, or eliminating skin blemishes; recommending of cosmetics and their application; and removing unwanted hair by electronic means.

#### Occupations:

- 0607-0101 Beautician
- 0607-0103 Electrologist

#### 0607-03 MASSAGE OCCUPATIONS

This unit group covers occupations concerned with massaging to aid beauty treatment, to promote muscular relaxation or as

therapy.

**Entry Requirements:** Satisfactory completion of an appropriate training course.

**Activities:** Applying liniment or lubricants; massage of various parts of the body and limbs; and use of special lamps and massage as directed by medical practitioners.

#### Occupations:

- 0607-0301 Masseur/Masseuse

#### 0607-99 OTHER PERSONAL SERVICE OCCUPATIONS

This unit group covers occupations not elsewhere classified concerned with providing personal services.

#### Occupations:

- 0607-9901 Prostitute
- 0607-9999 Personal Service Occupations, nec

## MINOR GROUP 0609

### HEALTH AND WELFARE SERVICE OCCUPATIONS

This minor group contains occupations involved with the provision of health and welfare service, and with assisting practitioners in institutions providing medical and social care.

**Entry Requirements:** Year 10-11 plus, in some cases, some work experience or a basic vocational certificate.

Occupations in this minor group are classified into the following unit groups:

0609-01 CHILD CARE AND RELATED OCCUPATIONS

0609-03 ENROLLED NURSES

0609-05 OTHER HEALTH ASSISTANTS

#### 0609-01 CHILD CARE AND RELATED OCCUPATIONS

This unit group covers occupations concerned with supervising and caring for children and providing activities which enhance their emotional, social, physical and intellectual development.

**Entry Requirements:** Year 10 plus, in some cases, a short period of work experience.

**Activities:** Supervising recreational activities for young children; organising educational needs and daily discipline for older children; teaching basic needs and entertaining pre-school children; and providing parental care in live-in situations.

**Occupations:**

- 0609-0101 Pre-School Aide, Non-Certificated
- 0609-0103 Child Care Group Worker
- 0609-0105 Creche Attendant
- 0609-0107 Hostel Parent
- 0609-0199 Other Child Care and Related Occupations

**Related Occupations:**

- 0609-03 Enrolled Nurses (Unit Group)

#### 0609-03 ENROLLED NURSES

This unit group covers occupations concerned with provision of basic nursing care services in hospitals, nursing homes and other institutions.

**Entry Requirements:** Year 10-12 plus, in some cases, a basic vocational certificate in a relevant area.

**Activities:** Caring for babies and children in hospitals, infant homes, day-care centres and nurseries; and bathing, dressing, feeding and monitoring temperature, fluid intake and other body functions of patients in general, geriatric or psychiatric hospitals and nursing homes under the supervision of registered nurses.

**Occupations:**

- 0609-0301 Mothercraft Nurse
- 0609-0399 Enrolled Nurses, nec

#### 0609-05 OTHER HEALTH ASSISTANTS

This unit group covers occupations not elsewhere classified concerned with assisting professional medical practitioners.

**Entry Requirements:** Year 10-11 plus, in some cases, up to 3 years' experience.

**Activities:** Assisting in the transport, care and management of patients suffering from diseases, injuries and other disorders; assisting dentists with patient care; performing routine duties associated with the delivery of nursing care and health education; and providing assistance and support to therapeutic specialists.

**Occupations:**

- 0609-0501 Ambulance Officer
- 0609-0503 Chiropractic Aide
- 0609-0505 Dental Nurse
- 0609-0507 Ward Helper
- 0609-0509 Wardsman/maid
- 0609-0599 Other Health Assistants, nec

## MINOR GROUP 0611

### OTHER SERVICE OCCUPATIONS

This minor group contains occupations involved with the provision of semi or unskilled services which are not classified in other minor groups. There are, generally speaking, no formal entry requirements, however for most occupations some experience is required.

Occupations in this minor group are classified into the following unit groups:

0611-01 FUNERAL DIRECTING AND RELATED OCCUPATIONS

0611-03 GUIDE OCCUPATIONS

0611-05 FRONT OF HOUSE OCCUPATIONS

0611-07 FLIGHT ATTENDANTS AND RELATED OCCUPATIONS

0611-09 MARINE AND RAIL STEWARD/STEWARDESS OCCUPATIONS

0611-99 OTHER SERVICE AND RELATED OCCUPATIONS

**0611-01 FUNERAL DIRECTING AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with arranging and conducting funerals.

**Entry Requirements:** Year 10, and additional study for embalming work.

**Activities:** Preparing funeral parlours; conducting or assisting at funerals; collecting and arranging disposal of bodies by burial or cremation; preparing the body; and organising viewing and service arrangements.

**Occupations:**

- 0611-0101 Funeral Director
- 0611-0103 Embalmer
- 0611-0105 Funeral Director's Assistant

**Related Occupations:**

- 0909-0317 Crematorium Operator

**0611-03 GUIDE OCCUPATIONS**

This unit group covers occupations concerned with escorting individuals and groups in sightseeing or educational visits, travel tours and excursions, and describing points of interest.

**Entry Requirements:** No formal requirement but usually work experience in a related area is required.

**Activities:** Planning or assisting with planning the tour or excursion; assembling participants; regulating the tour schedule; describing and explaining points of interest; and concluding the tour and answering inquiries during or after the visit.

**Occupations:**

- 0611-0301 Tourist Guide
- 0611-0303 Tour Leader
- 0611-0305 Guide, Establishment

**0611-05 FRONT OF HOUSE OCCUPATIONS**

This unit group covers occupations concerned with controlling admission to establishments, assisting patrons entering and leaving establishments, collecting tickets and directing patrons to their seats.

**Entry Requirements:** No formal requirements.

**Activities:** Meeting customers, clients and patrons at the entrance to an establishment and assisting with their entry; checking or taking tickets; guiding them to their seat or area; and maintaining order.

**Occupations:**

- 0611-0501 Door Attendant
- 0611-0503 Usher/Usherette, Entertainment
- 0611-0505 Attendant, Sporting
- 0611-0507 Ticket Taker

**0611-07 FLIGHT ATTENDANTS AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with providing services to, and ensuring the safety of, airline passengers aboard aircraft, on tarmac and in airline terminal.

**Entry Requirements:** Year 10 and up to 5 years' experience in a related area.

**Activities:** Checking cabins; greeting passengers; checking ticket and allocating seat; provision of meals; safety instruction and application; and attending to other passenger requirements.

**Occupations:**

- 0611-0701 Flight Service Director
- 0611-0703 Flight Attendant
- 0611-0705 Ground Agent

**0611-09 MARINE AND RAIL STEWARD/ STEWARDESS OCCUPATIONS**

This unit group covers occupations concerned with providing passenger services aboard a ship or train.

**Entry Requirements:** Year 9 and, in some cases, previous related work experience.

**Activities:** Serving meals; cleaning cabins and compartments; and meeting personal requirements of passengers and crew.

**Occupations:**

- 0611-0901 Marine Steward/Stewardess
- 0611-0903 Railway Conductor, Sleeping Car

**0611-99 OTHER SERVICE AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with providing a service to persons patronising commercial organisations or pleasure events, not elsewhere classified in this minor group.

**Activities:** Providing services such as interpreting, introductory services, parking cars, collecting fees at sporting facilities, operating lifts, pest control, court attending, butlering and shining shoes.

**Occupations:**

- 0611-9901 Introductory Consultant
- 0611-9903 Lift Operator
- 0611-9905 Car Park Attendant
- 0611-9907 Pest Control Operator
- 0611-9909 Interpreter
- 0611-9911 Court Orderly
- 0611-9913 Beauty Clinic Assistant
- 0611-9915 Croupier
- 0611-9917 Lampman/woman
- 0611-9919 Manager, Sport Centre
- 0611-9999 Other Service and Related Occupations, nec

**Related Occupations:**

- 0505-05 Driveway Attendants and Checkout Operators (Unit Group)

## **MAJOR GROUP 07**

### **TRADES AND OTHER SKILLED OCCUPATIONS (EXCEPT AGRICULTURE)**

This major group contains occupations which are apprenticeable trades in one or more States. In addition, it includes certain non-apprenticeable occupations which could be regarded as broadly equivalent to "trades" on the basis of criteria suggested by ISCO, i.e. skilled occupations where workers perform a relatively wide range of tasks and which require either some formal training and/or substantial training on the job. ALL apprenticeable trade occupations are included. However only skilled and/or licensed occupations found in manufacturing, mining and building are included among the non-apprenticeable skilled occupations.

Trade occupations are classified into minor groups which correspond to the trade groups used by the Commonwealth - State Apprenticeship Committee (COSAC). These trade groups are accepted throughout Australia by unions and State Apprenticeship boards and cover apprenticeable trades occupations in metal working, electrical, building, printing, vehicle, food processing and other areas. Non-apprenticeable skilled occupations are classified into only 1 minor group.

Within the apprenticeable trades minor groups, occupations are classified into unit groups according to distinctions between different kinds of work (or trades) and trained/trainee status - the latter requiring separate unit groups for apprentices.

Within the minor group of non-apprenticeable skilled occupations, unit groups are distinguished from each other principally on the basis of skill specialisation indicated principally by materials worked on. Further, as much correspondence as possible between the apprenticeable trades groups and this group is maintained.

Occupations in this major group are classified into the following minor groups:

- 0701 METAL TRADESPERSONS AND APPRENTICES
- 0703 ELECTRICAL AND ELECTRONICS TRADESPERSONS  
AND APPRENTICES
- 0705 BUILDING TRADESPERSONS AND APPRENTICES
- 0707 PRINTING TRADESPERSONS AND APPRENTICES
- 0709 VEHICLE TRADESPERSONS AND APPRENTICES
- 0711 FOOD TRADESPERSONS AND APPRENTICES
- 0713 OTHER TRADESPERSONS AND APPRENTICES
- 0715 NON-APPRENTICEABLE SKILLED AND TRADE  
SUPPORT OCCUPATIONS

## MINOR GROUP 0701 METAL TRADESPERSONS AND APPRENTICES

This minor group contains trades and apprentice occupations concerned with shaping and working metal stock, and fabricating, fitting, installing, maintaining and repairing products made primarily of metal. These occupations are covered by the metal trades award.

Occupations in this minor group are classified into the following unit groups:

- 0701-01 METAL CASTING TRADESPERSONS
- 0701-03 METAL FINISHING TRADESPERSONS
- 0701-05 TOOLMAKERS
- 0701-07 FITTERS AND MACHINISTS
- 0701-09 MACHINE SETTERS, PLASTIC PRODUCTS
- 0701-11 TEXTILE MECHANICS, YARN AND FABRIC
- 0701-13 FORGING TRADESPERSONS
- 0701-15 SHEET METAL TRADESPERSONS
- 0701-17 STRUCTURAL STEEL, BOILERMAKING AND WELDING TRADESPERSONS
- 0701-19 METAL SPINNERS
- 0701-21 AIRCRAFT GROUND ENGINEERS
- 0701-23 OTHER PRECISION METAL TRADESPERSONS
- 0701-25 INSPECTORS, METAL TRADES
- 0701-27 APPRENTICES, METAL CASTING
- 0701-29 APPRENTICES, METAL FINISHING
- 0701-31 APPRENTICES, METAL MACHINING
- 0701-33 APPRENTICES, AIRCRAFT GROUND ENGINEERING
- 0701-35 APPRENTICES, FORGING
- 0701-37 APPRENTICES, SHEET METAL TRADES
- 0701-39 APPRENTICES, STRUCTURAL STEEL, BOILERMAKING AND WELDING TRADES
- 0701-41 APPRENTICE METAL SPINNERS
- 0701-43 APPRENTICE TEXTILE MECHANICS
- 0701-45 OTHER APPRENTICES PRECISION METAL TRADES

### 0701-01 METAL CASTING TRADESPERSONS

This unit group covers occupations concerned with forming patterns, moulds and cores for metal castings.

**Entry Requirements:** A trade qualification in the relevant metal area.

**Activities:** Constructing wooden patterns; using measuring devices, templates, saws, lathes, planers and routers; and using such patterns, together with hand and power tools and flasks, to produce sand moulds for metal castings.

**Occupations:**

- 0701-0101 Patternmaker, Metal Casting
- 0701-0103 Jobbing Moulder-Coremaker

### 0701-03 METAL FINISHING TRADESPERSONS

This unit group covers occupations concerned with coating metal parts and articles to improve resistance to corrosion and

abrasion, to impart desirable electrical or magnetic properties or as an essential part of the manufacturing process. The work will frequently require special procedures, a high degree of quality control and usually will be manual in operation.

**Entry Requirements:** A trade qualification or, in some cases, a basic vocational certificate plus 3 years' experience.

**Activities:** Cleaning metal surfaces by hand or using machine; applying chemicals to surfaces to be treated; placing objects in, and removing from, coating tank; and operating polishing machine.

**Occupations:**

- 0701-0301 Electroplater, First Class
- 0701-0303 Metal Polisher, First Class
- 0701-0305 Electroformer

**0701-05 TOOLMAKERS**

This unit group covers occupations concerned with the design and fabrication of cutting, shaping and forming tools and other precision equipment for use in conjunction with machine tools and other production machinery.

**Entry Requirements:** A trade qualification in toolmaking or in fitting and machining, specialising in toolmaking.

**Activities:** Studying task requirements; determining production methods; using drafting equipment to design items; operating machine tools to form workpiece; testing operating item after production and modifying item or design as necessary; and using a number of precision machines, including numerically controlled machine tools.

**Occupations:**

- 0701-0501 Tool Designer
- 0701-0503 Toolmaker

**0701-07 FITTERS AND MACHINISTS**

This unit group covers occupations concerned with setting up and operating a large range of machine tools.

**Entry Requirements:** A trade qualification in machining, machine fitting or fitting/machining.

**Activities:** Setting up and operating machine tools to fabricate parts to fine tolerances; fitting and assembling parts and sub-assemblies; and checking dimensions of parts using precision measuring instruments.

**Occupations:**

- 0701-0701 Machinist, First Class
- 0701-0703 Fitter-Machinist
- 0701-0705 Maintenance Fitter
- 0701-0707 Fitter

**0701-09 MACHINE SETTERS, PLASTICS PRODUCTS**

This unit group covers occupations concerned with the setting up, adjustment and maintenance of machines used in the fabrication, assembly and repair of plastic products.

**Entry Requirements:** Year 9, plus 2 years' experience and several months' on-the-job training.

**Activities:** Installing dies and sizing rings; regulating vacuum, pressure and temperature controls; and checking the finished product for conformity to standards.

**Occupations:**

- 0701-0901 Extruding Machine Setter (Plastics)
- 0701-0903 Injection/Compression/Transfer Moulding Machine Setter
- 0701-0905 Blow Moulding Machine Setter
- 0701-0907 Cellular Plastics Machine Setter
- 0701-0909 Thermoforming Machine Setter
- 0701-0911 Rotational Moulding Machine Setter

**0701-11 TEXTILE MECHANICS, YARN AND FABRIC**

This unit group covers occupations concerned with textile machine processing functions.

**Entry Requirements:** A trade qualification in textile mechanics.

**Activities:** Setting up, adjusting and maintaining yarn and fabric machines associated with spinning, weaving, knitting and tufting.

**Occupations:**

- 0701-1101 Textile Mechanic, Spinning
- 0701-1103 Textile Mechanic, Weaving
- 0701-1105 Textile Mechanic, Knitting
- 0701-1107 Textile Mechanic, Tufting

**0701-13 FORGING TRADESPERSONS**

This unit group covers occupations concerned with heating metal in a forge or furnace and forming into desired shapes, and in some cases shaping metal without use of heat.

**Entry Requirements:** A trade qualification, or Year 10-12 plus 2-3 years' experience in forging and related tasks.

**Activities:** Placing metal bars, rods, and blocks in forge or furnace; shaping metal using hand or power hammers, tongs, chisels, hot saws, presses, punches; quenching metal product in oil or water bath; and verifying dimensions using scale, gauges, template and callipers.

**Occupations:**

- 0701-1301 Blacksmith
- 0701-1303 Master Farrier (Apprenticed)
- 0701-1305 Forging Smith

**0701-15 SHEET METAL TRADESPERSONS**

This unit group covers occupations concerned with the laying out, marking, shaping, forming and joining of sheet metal, copper and other metal stock.

**Entry Requirements:** A trade qualification in a relevant area.

**Activities:** Laying out and fabricating patterns around which metal and occasionally other materials are shaped and cut out; shaping, forming, joining sheet metal pipes and other stock of metal; using drafting equipment, hand and power shears and other cutting equipment, bending and folding machines; and rivetting, welding, brazing and soldering equipment.

**Occupations:**

- 0701-1501 Patternmaker, Sheet and Structural Metal
- 0701-1503 Sheet Metal Worker, First Class
- 0701-1505 Coppersmith

**Related Occupations:**

- 0701-01 Metal Casting Tradespersons (Unit Group)

**0701-17 STRUCTURAL STEEL, BOILERMAKING AND WELDING TRADESPERSONS**

This unit group covers occupations concerned with fabricating, assembling, erecting and repairing boilers and other products; and fabricating parts and sub-assemblies from steel plates, tubes, beams or similar materials for tanks and other structures.

**Entry Requirements:** A trade qualification.

**Activities:** Working from drawings to lay out and mark metal; setting up and operating machines and equipments to cut, bend, roll or otherwise shape and form structural metal; arc, oxy-acetylene or other welding equipment (hand or machine) to cut or join metal; guiding and adjusting flame or electrode; cleaning and smoothing weld by filing, chiselling or grinding; and erecting or repairing metal structures on site.

**Occupations:**

- 0701-1701 Pressure Welder
- 0701-1703 Metal Fabricator
- 0701-1705 Structural Steel Tradesperson
- 0701-1799 Welding Tradespersons, nec

**0701-19 METAL SPINNERS**

This unit group covers occupations concerned with operating a spinning lathe to "spin" shaped articles from sheet or structural metal.

**Entry Requirements:** A trade qualification in metal spinning.

**Activities:** Setting up spinning lathe; positioning and securing workpiece; operating machine while varying pressure of workpiece according to type and thickness of metal in order to shape article; and trimming excess material from shaped workpiece.

**Occupations:**

- 0701-1901 Metal Spinner

**0701-21 AIRCRAFT GROUND ENGINEERS**

This unit group covers occupations concerned with the maintenance, service and repair of aircraft engines, sub-assemblies and related systems, or the fitting, assembling, maintenance and repair of the components and sub-assemblies of air frames.

**Entry Requirements:** A trade qualification.

**Activities:** Removing and dismantling engines; inspecting and testing engine components; re-assembling and testing engines; conducting pre-flight inspections; assembling airframe parts; verifying alignments, clearances and quality of finish; dismantling and inspecting components and systems; replacing or repairing worn and damaged parts; re-assembling and test-operating systems and sub-assemblies; and maintaining records.

**Occupations:**

- 0701-2101 Aircraft Ground Engineer, Engines
- 0701-2103 Aircraft Ground Engineer, Airframes
- 0701-2105 Aircraft Engineer, Line Maintenance

**0701-23 OTHER PRECISION METAL TRADESPERSONS**

This unit group covers occupations concerned with the fabrication, assembly, modification, maintenance and/or repair of instruments and similar metal products requiring working with very small components and/or fine tolerances.

**Entry Requirements:** A trade qualification in a relevant area.

**Activities:** Determining customer's requirements; designing systems; fitting and assembling parts and sub-assemblies; fabricating components, using hand and power tools and machines; dismantling articles; repairing or replacing defective parts; re-assembling and test-operating equipment and adjusting as necessary; and maintaining records.

**Occupations:**

- 0701-2301 Precision Instrument Maker and Repairer
- 0701-2303 Office Mechanical Equipment Serviceman/  
woman
- 0701-2305 Watch and Clock Repairer
- 0701-2307 Locksmith
- 0701-2309 Saw Maker and Repairer

**0701-25 INSPECTORS, METAL TRADES**

This unit group covers occupations concerned with the testing and inspecting of metal or components and sub-assemblies before, during and after manufacture or repair.

**Entry Requirements:** A trade qualification or para-professional certificate plus 1-5 years' experience.

**Activities:** Designing test procedures; analysing specifications; selecting and examining articles in accordance with approved sampling techniques; applying functional tests; using precision measuring and testing instruments; tagging and separating flawed items; and maintaining records.

**Occupations:**

- 0701-2501 Pressure Weld Inspector
- 0701-2503 Quality Control Inspector, Metal Processing,  
Machining, Shaping and Forming
- 0701-2505 Aircraft Inspector

**0701-27 APPRENTICES, METAL CASTING**

This unit group covers apprentice occupations in the various metal casting trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0701-2701 Apprentice Jobbing Moulder-Coremaker
- 0701-2703 Apprentice Patternmaker, Metal Casting

**0701-29 APPRENTICES, METAL FINISHING**

This unit group covers apprentice occupations in the metal finishing trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0701-2901 Apprentice Electroplater
- 0701-2903 Apprentice Metal Polisher

**0701-31 APPRENTICES, METAL MACHINING**

This unit group covers apprentice occupations in the various metal machining and related trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0701-3101 Apprentice Fitter-Machinist
- 0701-3103 Apprentice Toolmaker

**0701-33 APPRENTICES, AIRCRAFT GROUND ENGINEERING**

This unit group covers apprentice occupations in the various aircraft ground engineering trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0701-3301 Apprentice Aircraft Ground Engineer,  
Engines
- 0701-3303 Apprentice Aircraft Ground Engineer,  
Airframes

**0701-35 APPRENTICES, FORGING**

This unit group covers apprentice occupations in the various forging trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0701-3501 Apprentice Blacksmith
- 0701-3503 Apprentice Farrier

**0701-37 APPRENTICES, SHEET METAL TRADES**

This unit group covers apprentice occupations in the various sheet metal trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0701-3701 Apprentice Sheet Metal Worker
- 0701-3703 Apprentice Coppersmith

**0701-39 APPRENTICES, STRUCTURAL STEEL, BOILERMAKING AND WELDING TRADES**

This unit group covers apprentice occupations in structural steel trades, boilermaking, welding or any combination thereof.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0701-3901 Apprentice Welder
- 0701-3903 Apprentice Metal Fabricator
- 0701-3905 Apprentice Structural Steel Tradesperson

**0701-41 APPRENTICE METAL SPINNERS**

This unit group covers apprentice occupations in the metal spinning trade.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0701-4101 Apprentice Metal Spinner

**0701-43 APPRENTICE TEXTILE MECHANICS**

This unit group covers occupations concerned with learning the duties of tradespersons in textile mechanics.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0701-4301 Apprentice Textile Mechanic, Spinning

0701-4303 Apprentice Textile Mechanic, Weaving

0701-4305 Apprentice Textile Mechanic, Knitting

0701-4307 Apprentice Textile Mechanic, Tufting

**0701-45 OTHER APPRENTICES PRECISION METAL TRADES**

This unit group covers apprentice occupations in the various instrument making and repairing trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0701-4501 Apprentice Precision Instrument Maker

0701-4503 Apprentice Office Mechanical Equipment Serviceman/woman

0701-4505 Apprentice Watch and Clock Repairer

0701-4507 Apprentice Locksmith

0701-4509 Apprentice Saw Maker and Repairer

## MINOR GROUP 0703 ELECTRICAL AND ELECTRONICS TRADESPERSONS AND APPRENTICES

This minor group contains trades and apprentice occupations concerned with installing and wiring electrical and electronic equipment and communication network for power/distribution, domestic, industrial and commercial use and for installation in transport vehicles and other products. These occupations are covered by the electrical trades award.

Occupations in this minor group are classified into the following unit groups:

0703-01 ELECTRICAL POWERLINE INSTALLATION AND MAINTENANCE  
TRADESPERSONS

0703-03 ELECTRICAL FITTERS

0703-05 AUTOMOTIVE ELECTRICIANS

0703-07 REFRIGERATION AND AIR-CONDITIONING MECHANICS

0703-09 ELECTRICAL MECHANICS

0703-11 COMMUNICATIONS EQUIPMENT TRADESPERSONS

0703-13 RADIO AND TELEVISION SERVICING OCCUPATIONS

0703-15 OTHER ELECTRICAL AND ELECTRONIC TRADESPERSONS

0703-17 APPRENTICE POWER LINESMEN/WOMEN

0703-19 APPRENTICE ELECTRICAL FITTERS

0703-21 APPRENTICE ELECTRICAL MECHANICS

0703-23 APPRENTICE AUTOMOTIVE ELECTRICIANS

0703-25 APPRENTICE REFRIGERATION MECHANICS

0703-27 APPRENTICES, TELECOMMUNICATIONS OCCUPATIONS

0703-29 APPRENTICES, RADIO AND TELEVISION SERVICING

**0703-01 ELECTRICAL POWERLINE  
INSTALLATION AND MAINTENANCE  
TRADESPERSONS**

This unit group covers trade occupations concerned with installing and maintaining powerlines and associated equipment used for transmitting and distributing electric energy.

**Entry Requirements:** Satisfactory completion of an apprenticeship in an appropriate electrical trade, such as electrical mechanics, cable jointing or powerline working.

**Activities:** Operating cranes, hand and power tools and machinery to dig holes and trenches and install poles and guy

wires; fixing, laying and jointing cables; installing and repairing aerial equipment; and joining overhead conductors.

**Occupations:**

0703-0101 Power Linesman/woman

0703-0103 Cable Joiner

**0703-03 ELECTRICAL FITTERS**

This unit group covers electrical trade occupations concerned with fitting, assembling, maintaining and repairing industrial and commercial electrical plant and equipment.

**Entry Requirements:** Satisfactory completion of an apprenticeship in electrical fitting.

**Activities:** Studying drawings and specifications; assessing parts and materials required; measuring parts for accuracy; using hand and machine tools to fabricate or modify metal parts; fitting and assembling components; selecting, preparing and connecting electrical wiring; checking product dimensions; and test-operating equipment on sub-assemblies.

**Occupations:**

- 0703-0301 Electrical Fitter, Production/Installation
- 0703-0303 Electrical Fitter, Maintenance
- 0703-0305 Coil Winder, Heavy Duty
- 0703-0307 Electrical Equipment Servicer

**0703-05 AUTOMOTIVE ELECTRICIANS**

This unit group covers electrical trade occupations concerned with installing, maintaining and repairing electrical wiring and components in automobiles, trucks and buses.

**Entry Requirements:** An apprenticeship in automotive electrics.

**Activities:** Mounting and connecting electrical equipment such as gauges, alternators, starter motors and radios to power sources; using test instruments to locate faults; replacing defective parts and wiring; and test-operating equipment.

**Occupations:**

- 0703-0501 Automotive Electrician

**0703-07 REFRIGERATION AND AIR-CONDITIONING MECHANICS**

This unit group covers electrical trade occupations concerned with assembling, installing, servicing and repairing refrigeration and air-conditioning units and systems.

**Entry Requirements:** An apprenticeship in refrigeration fitting, mechanics or servicing.

**Activities:** Studying job requirements; assembling, mounting and adjusting components such as compressors, condenser units and motors; wiring connecting equipment to power sources; locating faults with test instruments; replacing defective parts and wiring; and test-operating equipment.

**Occupations:**

- 0703-0701 Refrigeration Mechanic
- 0703-0703 Air-Conditioning Mechanic

**0703-09 ELECTRICAL MECHANICS**

This unit group covers electrical trade occupations concerned with installing, maintaining and repairing wiring for the distribution of electrical power.

**Entry Requirements:** An apprenticeship in electrical mechanics.

**Activities:** Examining wiring diagrams, drawings and specifications, installing electrical wiring and related equipment such as circuits, cables, conduit, switchboards, meters, switches, lighting fixtures and earthing systems using power drills, voltmeters, ammeters and continuity testers; connecting wires to circuit breakers and power distribution systems to power supply; detecting and repairing faults; and test-operating systems.

**Occupations:**

- 0703-0901 Electrical Mechanic
- 0703-0903 Aircraft Electrical Mechanic

**0703-11 COMMUNICATIONS EQUIPMENT TRADESPERSONS**

This unit group covers trade occupations concerned with installing, maintaining and repairing electronic radio and television broadcasting equipment and related communication equipment providing audio and visual transmission and reception facilities.

**Entry Requirements:** Satisfactory completion of an apprenticeship.

**Activities:** Examining reports, drawings and specifications; positioning power apparatus; attaching wires and cables and adjusting interconnecting assemblies and units; disassembling, locating and diagnosing faults using test instruments such as headsets, ohmmeters, voltmeters and ammeters; and replacing faulty components and reassembling equipment.

**Occupations:**

- 0703-1101 Telecommunication Tradesperson
- 0703-1103 Broadcasting Tradesperson

**0703-13 RADIO AND TELEVISION SERVICING OCCUPATIONS**

This unit group covers trade occupations concerned with maintaining, adjusting and repairing radio and television receivers, and related audio and visual reproduction equipment such hi-fi equipment and video and cassette recorders.

**Entry Requirements:** Satisfactory completion of an apprenticeship in radio and/or television mechanics.

**Activities:** Monitoring performance of equipment to determine radio and television malfunctions; dismantling units; examining and testing parts; repairing or replacing defective wiring and components; reassembling and test-operating units; and preparing work reports.

**Occupations:**

- 0703-1301 Radio and Television Tradesperson

**0703-15 OTHER ELECTRICAL AND ELECTRONIC TRADESPERSONS**

This unit group covers electrical and electronic tradespersons not elsewhere classified in this minor group concerned with the installation, maintenance, testing and repair of industrial control and computing equipment, electric and hydraulic freight and passenger lifts, and of complex electrical or electronic circuitry.

**Entry Requirements:** Satisfactory completion of an apprenticeship in an electric or electronic trade.

**Activities:** Examining drawings and specifications; assembling circuitry and connecting and soldering wires; locating, diagnosing and correcting faults and malfunctions; and replacing defective components.

**Occupations:**

- 0703-1501 Electrician, Special Class
- 0703-1503 Lift Mechanic
- 0703-1505 Control Equipment Tradesperson
- 0703-1507 Computer Serviceman/woman
- 0703-1599 Other Electrical and Electronic Tradespersons, nec

**0703-17 APPRENTICE POWER LINESMEN/ WOMEN**

This unit group covers trade apprentice occupations concerned with learning the duties of tradespersons in the powerline installation and maintenance trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0703-1701 Apprentice Power Linesman/woman

**0703-19 APPRENTICE ELECTRICAL FITTERS**

This unit group covers trade apprentice occupations concerned with learning the duties of tradespersons in the electrical fitting trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0703-1901 Apprentice Electrical Fitter

**0703-21 APPRENTICE ELECTRICAL MECHANICS**

This unit group covers trade apprentice occupations concerned with learning the duties of tradespersons in the electrical mechanics trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0703-2101 Apprentice Electrical Mechanic
- 0703-2103 Apprentice Aircraft Mechanic (Electrical)

**0703-23 APPRENTICE AUTOMOTIVE ELECTRICIANS**

This unit group covers trade apprentice occupations concerned with learning the duties of tradespersons in the automotive electrician trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0703-2301 Apprentice Automotive Electrician

**0703-25 APPRENTICE REFRIGERATION MECHANICS**

This unit group covers trade apprentice occupations concerned with learning the duties of tradespersons in the refrigeration mechanics trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0703-2501 Apprentice Refrigeration Mechanic/Fitter

**0703-27 APPRENTICES, TELECOMMUNICATIONS OCCUPATIONS**

This unit group covers trade apprentice occupations concerned with learning the duties of tradespersons in a number of electrical and telecommunications trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0703-2701 Trainee Telecommunication Tradesman/woman
- 0703-2703 Trainee Lineman/woman, Telecommunication
- 0703-2799 Trainee Telecommunications Occupations, nec

**0703-29 APPRENTICES, RADIO AND TELEVISION SERVICING**

This unit group covers trade apprentice occupations concerned with learning the duties of tradespersons in radio and television servicing.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0703-2901 Apprentice Radio and Television Mechanic

## MINOR GROUP 0705 BUILDING TRADESPERSONS AND APPRENTICES

This minor group contains trades and apprentice occupations concerned with the construction and fitting out of buildings. These occupations are covered by the building trades award.

Occupations in this minor group are classified into the following unit groups:

- 0705-01 CARPENTERS AND JOINERS
- 0705-03 BRICKLAYERS
- 0705-05 PAINTERS, DECORATORS AND SIGNWRITERS
- 0705-07 PLASTERERS
- 0705-09 PLUMBING TRADESPERSONS
- 0705-11 ROOF SLATERS AND TILERS
- 0705-13 WALL AND FLOOR TILERS
- 0705-15 STONEMASONS
- 0705-17 APPRENTICE CARPENTERS AND JOINERS
- 0705-19 APPRENTICE BRICKLAYERS
- 0705-21 APPRENTICE PAINTERS AND DECORATORS
- 0705-23 APPRENTICE PLASTERERS
- 0705-25 APPRENTICE PLUMBERS
- 0705-27 APPRENTICE ROOF SLATERS AND TILERS
- 0705-29 APPRENTICE WALL AND FLOOR TILERS
- 0705-31 APPRENTICE STONEMASONS

**0705-01 CARPENTERS AND JOINERS**

This unit group covers occupations concerned with constructing buildings, parts of buildings and structures for

incorporation in buildings, or theatrical props, solely or partly of wood.

**Entry Requirements:** An appropriate trade qualification.

**Activities:** Examining plans and specifications; directing activities of apprentices, assistants and other workers; setting out work; sawing, grooving, planing or sanding materials by hand or power tools; cutting material to size and shape; cutting, shaping and fitting wooden parts; forming structures and fittings ready for installation; renovating, repairing and maintaining existing structures; making and/or repairing furniture including wooden chairs and chair frames and assembling repaired wooden parts into finished articles of furniture by marking out, cutting and shaping wooden parts; and trimming, glueing and joining and constructing props, miniatures, sets and backgrounds for motion pictures, television and theatrical productions.

**Occupations:**

0705-0101	Carpenter and Joiner
0705-0103	Fixing Carpenter
0705-0105	Roof Carpenter and Framer
0705-0107	Joiner, Detailed
0705-0109	Joiner, Standard
0705-0111	Setter Out
0705-0113	Prop Maker

**0705-03 BRICKLAYERS**

This unit group covers occupations concerned with preparing and laying bricks on construction, maintenance and renovation projects.

**Entry Requirements:** 4-7 years' experience, or a trade qualification in bricklaying.

**Activities:** Examining plans and specifications; directing activities of apprentices, assistants and other workers; setting out work; mixing and spreading mortar; cutting bricks to size; setting bricks in place; checking alignment of work; pointing mortar joints; removing and repairing damaged brickwork; and using trowel, hammer, chisel, level, line, square, and power saw.

**Occupations:**

0705-0301	Bricklayer
0705-0303	Refractory Bricklayer

**0705-05 PAINTERS, DECORATORS AND SIGNWRITERS**

This unit group covers occupations concerned with applying paint, wallpaper, fabric and related materials to interior and exterior surfaces of buildings and other structures.

**Entry Requirements:** 4-7 years' experience or, in most cases, a trade qualification in painting, decorating and/or signwriting.

**Activities:** Applying coats of paint and other materials to surfaces of buildings and other structures; covering interior walls and ceilings with paper and other materials; designing, drawing, fabricating and painting illuminated and non-illuminated signs for displays, buildings and other structures; and using brushes, rollers, mixing, scraping and sizing tools, and spray guns.

**Occupations:**

0705-0501	Painter and Decorator
0705-0503	Paperhanger
0705-0505	Painter, Industrial
0705-0507	Signwriter

**0705-07 PLASTERERS**

This unit group covers occupations concerned with fixing fibrous sheets and plasterboard, applying solid plaster to walls and ceilings, and laying floors of cement and similar materials.

**Entry Requirements:** 4-7 years' experience or a trade qualification in plastering.

**Activities:** Examining plans and specifications; directing activities of apprentices, assistants and other workers; applying plaster to surfaces; smoothing or creating decorative finish on final coat; cutting fibreboard to size and shape; lifting,

positioning and securing panels; fixing pre-cast moulding; filling and smoothing joints and holes; and using trowel, scraper, line, level and straight-edge.

**Occupations:**

0705-0701	Plasterer, Solid
0705-0703	Plasterer, Fibrous

**0705-09 PLUMBING TRADESPERSONS**

This unit group covers occupations concerned with installing and repairing pipelines, plumbing and related equipment for water, gas, sewerage and other systems.

**Entry Requirements:** 4-7 years' experience or, in most cases, a trade qualification in plumbing or related subjects. Some occupations in this group also require an appropriate licence.

**Activities:** Examining plans and specifications; directing activities of apprentices, assistants and other workers; designing plumbing systems; setting out work; measuring, cutting, threading and bending pipe; assembling and joining piping to fixtures; cementing, soldering and welding pipe sections together; caulking joints; testing installations; laying clay or plastic piping; and using wrenches, soldering iron, pipe cutters, hack saw, flaring, pipe threading and pipe bending tools, line, level etc.

**Occupations:**

0705-0901	Plumber
0705-0903	Gasfitter
0705-0905	Drainer
0705-0907	Pipe Fitter (Plumbing)

**0705-11 ROOF SLATERS AND TILERS**

This unit group covers occupations concerned with covering structures with roof tiles, sheets or shingles to form a waterproof surface.

**Entry Requirements:** 3-7 years' experience or a trade qualification in roof tiling or related subjects.

**Activities:** Examining plans and specifications; directing activities of apprentices, assistants and other workers; preparing and covering structures with roof tiles; and using hammer, shingling hatchet, line, straight-edge and caulking gun.

**Occupations:**

0705-1101	Roof Slater and Tiler
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**0705-13 WALL AND FLOOR TILERS**

This unit group covers occupations concerned with covering walls and floors with tiles to provide a protective and/or decorative finish.

**Entry Requirements:** 4-7 years' experience or a trade qualification in wall and floor tiling or related subjects.

**Activities:** Examining plans and specifications; directing activities of apprentices, assistants and other workers; preparing and covering walls and floors with tiles; and using chisel, trowel, tile cutter, rubber-faced float, line, level, square and straight-edge.

**Occupations:**

0705-1301	Tile Layer, Wall and Floor
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**0705-15 STONEMASONS**

This unit group covers occupations concerned with preparing structural stone and related materials for building.

**Entry Requirements:** A trade qualification in stoneworking.

**Activities:** Examining plans and specifications; directing activities of apprentices and assistants; operating machines for processing stone from the rough sawn quarry state to a form that is suitable for building; and using hand and pneumatic cutting tools, saw, drills, and abrasive blasting equipment.

**Occupations:**

0705-1501	Stonemason
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**0705-17 APPRENTICE CARPENTERS AND JOINERS**

This unit group covers apprentice occupations concerned with carpentry and joinery.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0705-1701 Apprentice Carpenter and Joiner
- 0705-1703 Apprentice Joiner

**0705-19 APPRENTICE BRICKLAYERS**

This unit group covers apprentice occupations concerned with preparing and laying bricks on construction, maintenance and renovation projects.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0705-1901 Apprentice Bricklayer

**0705-21 APPRENTICE PAINTERS AND DECORATORS**

This unit group covers apprentice occupations concerned with applying paint, wallpaper, fabric and related materials to interior and exterior surfaces of building and other structures.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0705-2101 Apprentice Painter and Decorator
- 0705-2103 Apprentice Signwriter

**0705-23 APPRENTICE PLASTERERS**

This unit group covers apprentice occupations concerned with fixing fibrous sheets and plasterboard, applying solid plaster to walls and ceilings, and laying floors of cement and similar materials.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0705-2301 Apprentice Plasterer

**0705-25 APPRENTICE PLUMBERS**

This unit group covers apprentice occupations concerned with installing and repairing pipelines, plumbing and related equipment for water, gas, sewerage and other systems.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0705-2501 Apprentice Plumber

**0705-27 APPRENTICE ROOF SLATERS AND TILERS**

This unit group covers apprentice occupations concerned with covering structures with roof tiles, sheets or shingles to form a waterproof surface.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0705-2701 Apprentice Roof Slater and Tiler

**0705-29 APPRENTICE WALL AND FLOOR TILERS**

This unit group covers apprentice occupations concerned with covering walls and floors with tiles to provide a protective and/or decorative finish.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0705-2901 Apprentice Wall and Floor Tile Layer

**0705-31 APPRENTICE STONEMASONS**

This unit group covers apprentice occupations concerned with preparing structural stone and related materials for building.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

- 0705-3101 Apprentice Stonemason

## MINOR GROUP 0707 PRINTING TRADESPERSONS AND APPRENTICES

This minor group contains trades and apprentice occupations concerned with setting type and preparing printing surfaces and operating various types of printing presses. These occupations are covered by the printing trades award.

Occupations in this minor group are classified into the following unit groups:

- 0707-01 COMPOSITORS
- 0707-03 GRAPHIC REPRODUCTION TRADESPERSONS
- 0707-05 LETTERPRESS PRINTING OCCUPATIONS
- 0707-07 OFFSET LITHOGRAPHIC PRINTING OCCUPATIONS
- 0707-09 FLEXOGRAPHIC AND/OR GRAVURE PRINTING OCCUPATIONS
- 0707-11 BINDING AND FINISHING OCCUPATIONS
- 0707-13 STEREOTYPERS AND/OR ELECTROTYPERS
- 0707-15 SCREEN PRINTERS
- 0707-17 APPRENTICES, COMPOSITION AND GRAPHIC REPRODUCTION
- 0707-19 APPRENTICE PRINTING MACHINISTS

0707-21 APPRENTICES, BINDING AND FINISHING  
 0707-23 APPRENTICES, STEREOTYPING AND ELECTROTYPING  
 0707-25 APPRENTICES, SCREEN PRINTING  
 0707-99 PRINTING TRADES OCCUPATIONS, NEC

**0707-01 COMPOSITORS**

This unit group covers occupations concerned with assembly and setting type in readiness for printing.

**Entry Requirements:** Qualifications at trade level in compositing.

**Activities:** Assembling metal type; casting display type; substituting corrected type for that containing errors; operating keyboard-controlled typesetting machine or tape perforating machine; and "keying-in" and manipulating copy on visual display terminal.

**Occupations:**

0707-0101 Compositor

**Related Occupations:**

0311-0705 Paste-up Artist

**0707-03 GRAPHIC REPRODUCTION TRADESPERSONS**

This unit group covers occupations concerned with the preparation of plates and cylinders for reproducing graphic images.

**Entry Requirements:** Qualifications at trade level in graphic reproduction.

**Activities:** "Planning" (assembly) of film negatives; chemically treating plate or cylinder and photoimposing negative; operating photographic equipment to produce and process film; operating platemaking and processing equipment; and treating and finishing plate or cylinder.

**Occupations:**

0707-0301 Image Preparer  
 0707-0303 Plate Preparer  
 0707-0305 Cylinder Preparer  
 0707-0307 Photopolymer Plate Preparer

**Related Occupations:**

0311-0707 Photograph Retoucher  
 0311-0709 Studio Assistant  
 0215-0103 Photographer  
 0215-0105 Printmaker

**0707-05 LETTERPRESS PRINTING OCCUPATIONS**

This unit group covers occupations concerned with letterpress printing machinery.

**Entry Requirements:** Qualifications at trade level in printing.

**Activities:** Preparing and fitting frame preparatory to printing; setting and adjusting controls and functions on press; and regulating paper and ink supply during press run.

**Occupations:**

0707-0501 Letterpress Printing Machinist

**0707-07 OFFSET LITHOGRAPHIC PRINTING OCCUPATIONS**

This unit group covers occupations concerned with lithographic printing.

**Entry Requirements:** Qualifications at trade level in printing.

**Activities:** Preparing and fitting plate preparatory to printing; setting and adjusting controls and functions on press; and mixing and matching inks and colours.

**Occupations:**

0707-0701 Lithographic Printing Machinist

**0707-09 FLEXOGRAPHIC AND/OR GRAVURE PRINTING OCCUPATIONS**

This unit group covers occupations concerned with flexographic and/or gravure printing machinery.

**Entry Requirements:** Qualifications at trade level in printing.

**Activities:** Fitting cylinder to press; finishing and setting blades; setting and adjusting machine controls and functions; mixing inks and solvents; and maintaining press's operation to detect malfunctions.

**Occupations:**

0707-0901 Flexographic and/or Gravure Printing Machinist

**0707-11 BINDING AND FINISHING OCCUPATIONS**

This unit group covers occupations in book binding and finishing.

**Entry Requirements:** Qualifications at trade level in binding and finishing.

**Activities:** Binding publications by hand or machine setting; and operating power guillotines and other machines.

**Occupations:**

0707-1101 Bookbinder  
 0707-1103 Guillotine Operator, Bookbinding

**0707-13 STEREOTYPERS AND/OR ELECTROTYPERS**

This unit group covers occupations in stereotyping and/or electrotyping.

**Entry Requirements:** Qualifications at trade level in stereotyping and/or electrotyping.

**Activities:** Moulding and duplicating printing "forms" of type and other material to be used in long-run or multiple printing operations.

**Occupations:**

0707-1301 Stereotyper and/or Electrotyper

**0707-15 SCREEN PRINTERS**

This unit group covers occupations in screen printing.

**Entry Requirements:** Qualifications at trade level in screen printing.

**Activities:** Cutting and mounting stencils for printing in a screen printing machine.

**Occupations:**

0707-1501 Screen Printing Stencil Preparer

**0707-17 APPRENTICES, COMPOSITION AND GRAPHIC REPRODUCTION**

This unit group covers occupations concerned with composition and graphic reproduction.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0707-1701 Apprentice Compositor  
 0707-1703 Apprentice Graphic Reproducer

**0707-19 APPRENTICE PRINTING MACHINISTS**

This unit group covers occupations in printing machinery.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0707-1901 Apprentice Printing Machinist

#### 0707-21 APPRENTICES, BINDING AND FINISHING

This unit group covers occupations in binding and finishing.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0707-2101 Apprentice Binder and Finisher

#### 0707-23 APPRENTICES, STEREOTYPING AND ELECTROTYPING

This unit group covers apprentice occupations in stereotyping and/or electrotyping.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0707-2301 Apprentice Stereotyper and/or Electrotyper

#### 0707-25 APPRENTICES, SCREEN PRINTING

This unit group covers occupations in screen printing.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0707-2501 Apprentice Screen Printing Stencil Preparer

#### 0707-99 PRINTING TRADES OCCUPATIONS, NEC

This unit group covers other printing trade occupations not elsewhere classified.

**Occupations:**

0707-9901 Linotype Mechanic

## MINOR GROUP 0709 VEHICLE TRADESPERSONS AND APPRENTICES

This minor group contains trades occupations and apprenticeships concerned with the fabrication, maintenance and repair of vehicle bodies, interiors and engines. These occupations are covered by the vehicle trades award.

Occupations in this minor group are classified into the following unit groups:

- 0709-01 VEHICLE MECHANICS
- 0709-03 PANEL BEATERS
- 0709-05 VEHICLE PAINTERS
- 0709-07 VEHICLE BODY MAKERS
- 0709-09 OTHER VEHICLE TRADESPERSONS
- 0709-11 APPRENTICE VEHICLE MECHANICS
- 0709-13 APPRENTICE PANEL BEATERS
- 0709-15 APPRENTICE VEHICLE PAINTERS
- 0709-17 APPRENTICE BODY MAKERS
- 0709-19 APPRENTICES, OTHER VEHICLE TRADES

#### 0709-01 VEHICLE MECHANICS

This unit group covers occupations concerned with maintenance and repair of vehicle engines, transmission, fuel system, induction system and braking system.

**Entry Requirements:** A trade qualification in vehicle mechanics or, in some cases, 6 years' experience.

**Activities:** Testing, timing, servicing, repairing and overhauling mechanical components in vehicles, using a variety of hand tools.

**Occupations:**

- 0709-0101 Motor Mechanic
- 0709-0103 Diesel Motor Mechanic
- 0709-0105 Brake Mechanic

**Related Occupations:**

- 0701-0705 Maintenance Fitter

#### 0709-03 PANEL BEATERS

This unit group covers occupations concerned with the finishing (except painting) and repairing of vehicle bodies.

**Entry Requirements:** A trade qualification in panel beating.

**Activities:** Studying manuals and specifications; removing parts to get at damage; repairing panels using hammer, oxy torch, body putty etc; and replacing badly damaged panels.

**Occupations:**

- 0709-0301 Panel Beater

#### 0709-05 VEHICLE PAINTERS

This unit group covers occupations concerned with vehicle painting.

**Entry Requirements:** A trade qualification in vehicle painting.

**Activities:** Preparing surface of vehicles using file, chisel, sander etc; applying prime and finish coats; and mixing, matching and applying finishing coats of paint using spray gun.

**Occupations:**

- 0709-0501 Vehicle Painter

#### 0709-07 VEHICLE BODY MAKERS

This unit group covers occupations concerned with manufacturing and repairing specialised vehicle bodies such as

buses, fire engines and caravans.

**Entry Requirements:** A trade qualification in vehicle body making.

**Activities:** Constructing frame for body using spanners, screwdrivers, welding, woodworking etc. equipment; and attaching sheetmetal to frame using hand and power tools.

**Occupations:**

0709-0701 Body Maker, First Class

#### 0709-09 OTHER VEHICLE TRADESPERSONS

This unit group covers vehicle trades occupations not elsewhere classified.

**Entry Requirements:** A vehicle trade qualification.

**Occupations:**

0709-0901 Vehicle Trimmer

0709-0999 Other Vehicle Tradespersons, nec

#### 0709-11 APPRENTICE VEHICLE MECHANICS

This unit group covers apprentice trade occupations in the maintenance and repair of vehicle engines, transmission, fuel systems, induction systems and braking systems.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0709-1101 Apprentice Motor Mechanic

0709-1103 Apprentice Brake Mechanic

#### 0709-13 APPRENTICE PANEL BEATERS

This unit group covers apprentice trade occupations concerned with the finishing and repairing of vehicle bodies.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0709-1301 Apprentice Panel Beater

#### 0709-15 APPRENTICE VEHICLE PAINTERS

This unit group covers apprentice trade occupations in vehicle painting.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0709-1501 Apprentice Vehicle Painter

#### 0709-17 APPRENTICE BODY MAKERS

This unit group covers apprentice trade occupations concerned with vehicle body making.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0709-1701 Apprentice Body Maker

#### 0709-19 APPRENTICES, OTHER VEHICLE TRADES

This unit group covers apprentice vehicle trade occupations not elsewhere classified.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0709-1901 Apprentice Vehicle Trimmer

## MINOR GROUP 0711 FOOD TRADESPERSONS AND APPRENTICES

This minor group contains trades occupations and apprenticeships concerned with the processing and preparation of foods, as well as formal serving of meals. These occupations are covered by the food trades award.

Occupations in this minor group are classified into the following unit groups:

- 0711-01 CONFECTIONERS
- 0711-03 MEAT TRADES OCCUPATIONS
- 0711-05 BAKERS, PASTRYCOOKS AND MILLERS
- 0711-07 DAIRY TRADES OCCUPATIONS
- 0711-09 QUALIFIED COOKS
- 0711-11 WAITERS/WAITRESSES, FORMAL SERVICE
- 0711-13 APPRENTICE CONFECTIONERS
- 0711-15 APPRENTICES, MEAT TRADES OCCUPATIONS
- 0711-17 APPRENTICE BAKERS, PASTRYCOOKS AND MILLERS
- 0711-19 APPRENTICES, DAIRY TRADES OCCUPATIONS
- 0711-21 APPRENTICE COOKS
- 0711-23 APPRENTICE WAITERS/WAITRESSES

#### 0711-01 CONFECTIONERS

This unit group covers occupations concerned with confectionery making.

**Entry Requirements:** A trade qualification in confectionery or Year 10 plus 4 years' experience.

**Activities:** Weighing, mixing and cooking ingredients; performing a variety of duties to produce and wrap sweets; and directing apprentices and other workers.

**Occupations:**

0711-0101 Skilled Confectioner

**0711-03 MEAT TRADES OCCUPATIONS**

This unit group covers occupations concerned with slaughtering animals and preparing meat for human consumption or for pet food.

**Entry Requirements:** Usually a trade qualification in an appropriate meat trade.

**Activities:** Slaughtering animals; selecting, cutting, trimming and preparing meats for marketing or cooking; and selecting and preparing meat to make smallgoods.

**Occupations:**

0711-0301 Retail Butcher  
0711-0303 Non-Retail Butcher  
0711-0305 Smallgoods Maker  
0711-0307 Slaughterman/woman

**0711-05 BAKERS, PASTRYCOOKS AND MILLERS**

This unit group covers occupations concerned with breadmaking, pastrycooking and cereal milling.

**Entry Requirements:** A trade qualification in a relevant food trade and/or up to 10 years' experience.

**Activities:** Controlling the mixing and milling of grains; and preparing and baking bread loaves and rolls, buns, cakes and pastrygoods.

**Occupations:**

0711-0501 Pastrycook  
0711-0503 Baker  
0711-0505 Grain Miller  
0711-0507 Stockfeed Miller

**0711-07 DAIRY TRADES OCCUPATIONS**

This unit group covers occupations concerned with processing milk and cream.

**Entry Requirements:** A trade qualification in a relevant dairy trade, or a certificate or diploma in dairy technology, or a certificate of competency following a period of on-the-job training.

**Activities:** Controlling pasteurising, buttermaking and cheesemaking equipment; and directing activities of apprentices, assistants and other workers.

**Occupations:**

0711-0701 Buttermaker  
0711-0703 Cheesemaker

**0711-09 QUALIFIED COOKS**

This unit group covers occupations concerned with preparing and cooking food of a more complex nature; some specialising in particular items of food for preparation and cooking.

**Entry Requirements:** A trade qualification in cooking.

**Activities:** Selecting and preparing supplies for use; specialised treating of food in the cooking process; concentrating cooking skills on particular foods, or in special types of establishments; and working in a group situation requiring special expertise.

**Occupations:**

0711-0901 Chef, General

**Related Occupations:**

0711-05 Bakers, Pastrycooks and Millers (Unit Group)

**0711-11 WAITERS/WAITRESSES, FORMAL SERVICE**

This unit group covers occupations concerned with serving food and beverages in a formal dining setting to guests in hotels, restaurants, clubs and similar establishments.

**Entry Requirements:** In most cases a trade qualification or equivalent work experience.

**Activities:** Preparing the dining areas; servicing customers; cleaning tables; suggesting appropriate wines to complement meals; and serving wines and other beverages.

**Occupations:**

0711-1101 Waiter/Waitress, Formal Service

**0711-13 APPRENTICE CONFECTIONERS**

This unit group covers apprentice occupations concerned with confectionery making.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0711-1301 Apprentice Confectioner

**0711-15 APPRENTICES, MEAT TRADES OCCUPATIONS**

This unit group covers apprentice occupations concerned with slaughtering animals and preparing meat for human consumption or for pet food.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0711-1501 Apprentice Butcher  
0711-1503 Apprentice Smallgoods Maker  
0711-1505 Apprentice Slaughterman/woman

**0711-17 APPRENTICE BAKERS, PASTRYCOOKS AND MILLERS**

This unit group covers apprentice occupations concerned with breadmaking, pastrycooking and cereal milling.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0711-1701 Apprentice Pastrycook  
0711-1703 Apprentice Baker  
0711-1705 Apprentice Cereal Miller

**0711-19 APPRENTICES, DAIRY TRADES OCCUPATIONS**

This unit group covers apprentice occupations concerned with processing milk and cream.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0711-1901 Apprentice Buttermaker  
0711-1903 Apprentice Cheesemaker

**0711-21 APPRENTICE COOKS**

This unit group covers apprentice occupations concerned with preparing and cooking food of a more complex nature.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0711-2101 Apprentice Cook

**0711-23 APPRENTICE WAITERS/WAITRESSES**

This unit group covers apprentice occupations concerned with serving food and beverages in a formal dining setting to guests in hotels, restaurants, clubs and similar establishments.

**Entry Requirements:** No formal entry requirements.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0711-2301 Apprentice Waiter/Waitress

## **MINOR GROUP 0713 OTHER TRADESPERSONS AND APPRENTICES**

This minor group contains trades and apprentice occupations which are not elsewhere classified in this major group.

Occupations in this minor group are classified into the following unit groups:

- 0713-01 OPTICAL INSTRUMENT AND SPECTACLE LENS MACHINISTS
- 0713-03 OTHER GLASS TRADESPERSONS
- 0713-05 WOOD PATTERNMAKING OCCUPATIONS
- 0713-07 WOOD MACHINISTS AND TURNERS, TRADE
- 0713-09 CABINET AND CHAIR MAKERS
- 0713-11 OTHER WOOD TRADE OCCUPATIONS
- 0713-13 JEWELLERY AND PRECIOUS METALWARE TRADES  
OCCUPATIONS
- 0713-15 TAILORS
- 0713-17 GARMENT MAKERS, EXCEPT TAILORS
- 0713-19 UPHOLSTERS, BEDDING AND MATTRESS MAKERS
- 0713-21 LEATHER AND CANVAS GOODS MAKERS
- 0713-23 SKILLED SHOEMAKING AND REPAIRING OCCUPATIONS
- 0713-25 HAIRDRESSERS
- 0713-27 MARINE CONSTRUCTION TRADESPERSONS
- 0713-29 MUSICAL INSTRUMENT MAKERS AND REPAIRERS
- 0713-31 AMENITY HORTICULTURAL TRADES OCCUPATIONS
- 0713-33 DRY-CLEANERS
- 0713-35 DENTAL TECHNICIANS
- 0713-37 SAW OPERATORS
- 0713-39 CARPET LAYERS
- 0713-41 APPRENTICES, GLASS PRODUCTS
- 0713-43 APPRENTICE WOOD MACHINISTS, TURNERS AND  
PATTERNMAKERS
- 0713-45 APPRENTICES, WOOD PRODUCTS FABRICATING
- 0713-47 APPRENTICE JEWELLERS
- 0713-49 APPRENTICES, SILVERWARE FABRICATING
- 0713-51 APPRENTICES, GARMENT MAKING, UPHOLSTERING AND  
SHOEMAKING
- 0713-53 APPRENTICE HAIRDRESSERS
- 0713-55 APPRENTICE SHIPWRIGHTS
- 0713-57 APPRENTICES, AMENITY HORTICULTURE
- 0713-59 APPRENTICE DENTAL TECHNICIANS
- 0713-61 APPRENTICE DRY-CLEANERS
- 0713-63 APPRENTICE CARPET LAYERS

### **0713-01 OPTICAL INSTRUMENT AND SPECTACLE LENS MACHINISTS**

This unit group covers trade occupations in the optical and  
ophthalmic industry.

**Entry Requirements:** Satisfactory completion of an  
apprenticeship in optical mechanics, optical instrument  
making or a related area.

**Activities:** Operating machines to grind lenses to prescription requirements; to fit lenses to spectacle frames or to grind and polish lenses, mirrors and prisms for optical instruments.

**Occupations:**

- 0713-0101 Precision Grinder
- 0713-0103 Ophthalmic Lens Surfer and Fitter

**0713-03 OTHER GLASS TRADESPERSONS**

This unit group covers trade occupations concerned with the manufacture of glass products.

**Entry Requirements:** Satisfactory completion of an apprenticeship in glazing or a related area, or at least 2 years' experience in some cases.

**Activities:** Cutting glass; installing glass in buildings and furniture; and sandblasting, glass silvering, leadlight glazing, bevel cutting, and glass embossing and bending.

**Occupations:**

- 0713-0301 Glazier
- 0713-0303 Beveller
- 0713-0305 Glass Cutter, Skilled
- 0713-0307 Glass Bender
- 0713-0399 Glass Trades Occupations, nec

**0713-05 WOOD PATTERNMAKING OCCUPATIONS**

This unit group covers occupations concerned with constructing wooden models of production line items.

**Entry Requirements:** A trade qualification in wood machinery.

**Activities:** Using precision equipment to mark out shapes on wood; operating woodworking machinery to form outline of parts; and constructing models for use as samples or prototypes.

**Occupations:**

- 0713-0501 Patternmaker, Wood
- 0713-0503 Model Maker, Wood

**0713-07 WOOD MACHINISTS AND TURNERS, TRADE**

This unit group covers occupations concerned with setting up, operating and maintaining woodworking machines but excludes occupations concerned with the construction of wooden models of production line items.

**Entry Requirements:** A trade qualification in wood machinery.

**Activities:** Operating more complex machines that saw, sand, plane, trim, shape, mill, rout, mortice or drill wooden workpieces according to precise specifications.

**Occupations:**

- 0713-0701 A Grade Wood Machinist
- 0713-0703 Woodworking Machine Line Setter
- 0713-0705 Wood Turner

**0713-09 CABINET AND CHAIR MAKERS**

This unit group covers occupations concerned with making and repairing wooden furniture.

**Entry Requirements:** A trade qualification.

**Activities:** Examining plans and specifications; directing activities of apprentices, assistants and other workers; setting out work; cutting material to size and shape; making and/or repairing wooden furniture; and assembling repaired wooden parts into finished articles of furniture.

**Occupations:**

- 0713-0901 Cabinet-Maker
- 0713-0903 Chairmaker

**Related Occupations:**

- 0705-0107 Joiner, Detailed
- 0705-0109 Joiner, Standard

0705-0111 Setter Out

**0713-11 OTHER WOOD TRADE OCCUPATIONS**

This unit group covers occupations concerned with carving ornamental designs on wood, making picture frames, making and repairing wooden barrels, making cane furniture and wooden craftwork.

**Entry Requirements:** A trade qualification in the relevant specialisation.

**Activities:** Carving ornamental designs for furniture, panelling and purely decorative objects using hand tools and woodworking machines; cutting out and assembling mouldings to make picture frames; making, repairing or assembling barrels, casks and vats using saws, planes, chisels and/or prepared wooden parts; selecting, straightening and sizing cane rods; bending and shaping rods; and making frames and weaving cane around them to form furniture.

**Occupations:**

- 0713-1101 Wood Carver
- 0713-1103 Picture Framer
- 0713-1105 Cooper
- 0713-1107 Cane Furniture Maker
- 0713-1109 Furniture Finisher
- 0713-1199 Woodworkers, nec

**0713-13 JEWELLERY AND PRECIOUS METALWARE TRADES OCCUPATIONS**

This unit group covers occupations concerned with jewellery and precious metalware fabricating, assembling, maintaining and repairing occupations.

**Entry Requirements:** Usually a trade qualification.

**Activities:** Fabricating, assembling and repairing complete jewellery articles, such as rings, brooches and bracelets; examining, cutting, shaping and polishing rough gemstones to produce fashion or industrial jewels; setting gems in prepared jewellery mountings; making and repairing precious metal or white metal articles by hand; and finishing jewellery or precious metalware by polishing or plating.

**Occupations:**

- 0713-1301 Gem Cutter
- 0713-1303 Jewellery Maker and Repairer
- 0713-1305 Gem Setter and Engraver
- 0713-1307 Precious Metal Smith
- 0713-1309 Jewellery and Precious Metalware Finisher

**Related Occupations:**

- 0215-0305 Industrial Designer
- 1003-1113 Process Worker, Jewellery Assembly
- 0701-1901 Metal Spinner
- 0701-0303 Metal Polisher, First Class
- 0701-0301 Electroplater, First Class
- 1003-0701 Electroplater, Second Class

**0713-15 TAILORS**

This unit group covers occupations concerned with the fabrication of made-to-measure and ready-to-wear garments.

**Entry Requirements:** A trade qualification in an appropriate area or Year 9-10 and 2 years' experience.

**Activities:** Cutting out, sewing and completing of garments to customers' requirements or pattern specifications.

**Occupations:**

- 0713-1501 Tailor, Made-to-Measure Garments
- 0713-1503 Tailor, Ready-to-Wear Garments

**0713-17 GARMENT MAKERS, EXCEPT TAILORS**

This unit group covers occupations concerned with the fabrication of made-to-measure and ready-to-wear garments for women, and textile articles in accordance with patterns.

**Entry Requirements:** Year 9-12, and in some cases a para-professional or trade qualification in a related area and up to 2 years' experience.

**Activities:** Making women's dress clothing in accordance with customers' requirements or pattern specifications; advising customers on fit and style; and cutting fabric following pattern outline to form parts for textile articles.

**Occupations:**

- 0713-1701 Dressmaker
- 0713-1703 Cutter, Tailors and Dressmakers

**Related Occupations:**

- 1011-0701 Sewing Machine Operator (Textiles)
- 1015-0129 Quality Control Inspector, Apparel
- 0715-2303 Wardrobe Assistant
- 0715-2305 Patternmaker/Grader (Textiles)

**0713-19 UPHOLSTERERS, BEDDING AND MATTRESS MAKERS**

This unit group covers occupations concerned with the fabrication and repair of upholstery in furniture, cushion and bedding manufacture.

**Entry Requirements:** A trade qualification or, in some cases, Year 10.

**Activities:** Cutting out, assembling, sewing and finishing of upholstered products to customer requirements or pattern specifications; repairing upholstered furniture; and marking and cutting cloth, leather or synthetic fabric into upholstery parts.

**Occupations:**

- 0713-1901 Upholsterer, General
- 0713-1903 Cutter, Upholstery
- 0713-1905 Bedding and Mattress Maker

**Related Occupations:**

- 1015-0139 Quality Controller, Furniture, Cushions and Covers

**0713-21 LEATHER AND CANVAS GOODS MAKERS**

This unit group covers occupations concerned with the fabrication and repair of leather, canvas and sailcloth products.

**Entry Requirements:** Year 9-10 and usually a basic vocational certificate or trade qualifications.

**Activities:** Cutting out, assembling, sewing and finishing of leather, canvas and sailcloth articles to customer requirements, pattern specifications or otherwise.

**Occupations:**

- 0713-2101 Leather Worker
- 0713-2103 Canvas Worker
- 0713-2105 Sailmaker

**0713-23 SKILLED SHOEMAKING AND REPAIRING OCCUPATIONS**

This unit group covers occupations concerned with footwear fabrication and repair.

**Entry Requirements:** A trade qualification in the relevant area.

**Activities:** Cutting, assembling, glueing, sewing and finishing of footwear according to customer requirements or pattern specifications.

**Occupations:**

- 0713-2301 Laster
- 0713-2303 Shoe Repairer
- 0713-2305 Shoemaker
- 0713-2307 Clicker
- 0713-2309 Machinist, Shoemaking

**0713-25 HAIRDRESSERS**

This unit group covers occupations concerned with cutting, shampooing, colouring and styling hair, trimming, shaping and shaving beards and moustaches; caring for hair and scalp; and analysing and treating specific hair and scalp problems.

**Entry Requirements:** A trade qualification.

**Activities:** Cutting, shampooing, colouring, styling and waving hair; shaving and trimming beards and moustaches; and giving advice on hair care and wigs.

**Occupations:**

- 0713-2501 Hairdresser, Ladies'
- 0713-2503 Hairdresser, Gentlemen's
- 0713-2505 Hairdresser, Unisex

**0713-27 MARINE CONSTRUCTION TRADESPERSONS**

This unit group covers occupations concerned with the fabrication, assembly and repair of ships and boats.

**Entry Requirements:** An appropriate trade qualification.

**Activities:** Constructing templates from scale drawings of parts to be fabricated; preparing shipway and blocks for construction of ship or boat; erecting and temporarily securing section and components; lining off positions for installation of all other equipment by other workers; laying and caulking decks; and repair of structural sections.

**Occupations:**

- 0713-2701 Shipwright
- 0713-2703 Loftsmen/woman (Marine)
- 0713-2705 Boat Builder/Repairer

**0713-29 MUSICAL INSTRUMENT MAKERS AND REPAIRERS**

This unit group covers occupations concerned with making and repairing various musical instruments.

**Entry Requirements:** Year 10-11 and, in some cases, a trade qualification.

**Activities:** Repairing and tuning pianos; making, repairing and restoring stringed instruments; and repairing wind and percussion instruments.

**Occupations:**

- 0713-2901 Piano Tuner/Repairer
- 0713-2903 Stringed Musical Instrument Maker/Repairer
- 0713-2999 Musical Instrument Makers and Repairers, nec

**0713-31 AMENITY HORTICULTURAL TRADES OCCUPATIONS**

This unit group covers occupations concerned with growing and marketing trees, shrubs and ornamental plants; and tending flowers, shrubs, trees and lawns in public and private gardens.

**Entry Requirements:** A trade qualification, diploma or associate diploma, or Year 9-10 together with experience.

**Activities:** Preparing and sterilising soil, compost and other plant food; planting seeds and bulbs; potting; transplanting; taking and setting cuttings; harvesting and storing bulbs and seeds; adding fertiliser; spraying weedcides; maintaining lawns and greens; repairing damaged turf; and maintaining flower and shrub gardens.

**Occupations:**

- 0713-3101 Nursery Man/Woman
- 0713-3103 Gardener, Public Gardens
- 0713-3105 Groundsman/woman
- 0713-3107 Gardener, Private Garden
- 0713-3109 Landscape Gardener

**0713-33 DRY-CLEANERS**

This unit group covers occupations concerned with dry-cleaning garments, curtains and leather, suede and fur articles.

**Entry Requirements:** No formal entry requirements except in Victoria where trade qualification is necessary.

**Activities:** Identifying the fabric to be cleaned; use of the appropriate cleaning fluids; operating cleaning machines; checking for thoroughness; and cleaning and preparing machinery for future use.

**Occupations:**

0713-3301 Dry-Cleaner

**0713-35 DENTAL TECHNICIANS**

This unit group covers occupations concerned with constructing and repairing dentures according to supplied specifications.

**Entry Requirements:** A trade qualification or certificate.

**Activities:** Shaping metal and plastic plates; mounting porcelain or plastic teeth or plates; constructing clasps, inlays and the like; joining breaks in dentures; and relining dentures.

**Occupations:**

0713-3501 Dental Technician

**0713-37 SAW OPERATORS**

This unit group covers occupations concerned with the operation of power saws (other than remote control) to cut up logs and resaw timber.

**Entry Requirements:** Year 10-11. On-the-job training is available.

**Activities:** Aligning logs for cutting; adjusting depth of cut; starting saw; realigning uncut part of log; and making safety checks.

**Occupations:**

0713-3701 Head Sawyer

0713-3703 Resawyer

**0713-39 CARPET LAYERS**

This unit group covers occupations concerned with measuring, cutting and installing floor coverings.

**Entry Requirements:** 3-7 years' experience or a trade qualification in floor covering or related areas.

**Activities:** Examining area to be covered; directing activities of apprentices, assistants and other workers; measuring and cutting floor covering to size; securing floor covering to floor; and removing and replacing damaged floor coverings.

**Occupations:**

0713-3901 Carpet Layer

**0713-41 APPRENTICES, GLASS PRODUCTS**

This unit group covers apprentice occupations concerned with the forming of glass products.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0713-4101 Apprentice Flat Glass Tradesperson

0713-4103 Apprentice Glass Bender

**0713-43 APPRENTICE WOOD MACHINISTS, TURNERS AND PATTERNMAKERS**

This unit group covers apprentice occupations in wood machining and turning.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0713-4301 Apprentice Wood Patternmaker

0713-4303 Apprentice Wood Machinist

0713-4305 Apprentice Wood Turner

**0713-45 APPRENTICES, WOOD PRODUCTS FABRICATING**

This unit group covers apprentice occupations concerned with cabinet making, wood carving, picture framing, coopering, cane furniture making and furniture finishing.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0713-4501 Apprentice Cabinet-Maker

0713-4503 Apprentice Wood Carver

0713-4505 Apprentice Picture Framer

0713-4507 Apprentice Cooper

0713-4509 Apprentice Cane Furniture Maker

0713-4511 Apprentice Furniture Finisher

**Related Occupations:**

0705-17 Apprentice Carpenters and Joiners (Unit Group)

0713-5501 Apprentice Shipwright

**0713-47 APPRENTICE JEWELLERS**

This unit group covers apprentice occupations in the various jewellery trades.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0713-4701 Apprentice Diamond Cutter

0713-4703 Apprentice Jewellery Maker and Repairer

**0713-49 APPRENTICES, SILVERWARE FABRICATING**

This unit group covers apprentice occupations in trades of silversmithing or silverware polishing.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0713-4901 Apprentice Silversmith

0713-4903 Apprentice Silverware Polisher

**0713-51 APPRENTICES, GARMENT MAKING, UPHOLSTERING AND SHOEMAKING**

This unit group covers occupations concerned with learning the trades of tailoring, upholstering and bedding and mattress making, and shoemaking.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0713-5101 Apprentice Tailor

0713-5103 Apprentice Upholsterer

0713-5105 Apprentice Bedding and Mattress Maker

0713-5107 Apprentice Shoemaker

**0713-53 APPRENTICE HAIRDRESSERS**

This unit group covers apprentice occupations in hairdressing.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0713-5301 Apprentice Hairdresser, Ladies'

0713-5303 Apprentice Hairdresser, Gentlemen's

**0713-55 APPRENTICE SHIPWRIGHTS**

This unit group covers apprentice occupations in the trades of wood and metal shipwrighting.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0713-5501 Apprentice Shipwright

**0713-57 APPRENTICES, AMENITY HORTICULTURE**

This unit group covers apprentice occupations in the field of amenity horticulture.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0713-5701 Apprentice Nursery Man/Woman

0713-5703 Apprentice Gardener

0713-5705 Apprentice Greenkeeper

0713-5707 Apprentice Landscape Gardener

**0713-59 APPRENTICE DENTAL TECHNICIANS**

This unit group covers apprentice occupations in the trade of dental technician.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0713-5901 Apprentice Dental Technician

**0713-61 APPRENTICE DRY-CLEANERS**

This unit group covers apprentice occupations in the trade of dry-cleaning.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0713-6101 Apprentice Dry-Cleaner

**0713-63 APPRENTICE CARPET LAYERS**

This unit group covers apprentice occupation in the trade of carpet laying.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE.

**Occupations:**

0713-6301 Apprentice Carpet Layer

**MINOR GROUP 0715****NON-APPRENTICABLE SKILLED AND TRADE SUPPORT OCCUPATIONS**

This minor group contains non-trade skilled and trainee occupations where workers perform a wide range of tasks and which require some formal training and/or substantial on-the-job training.

Occupations in this minor group are classified into the following unit groups:

0715-01 METAL POLISHERS, SECOND CLASS

0715-03 SECOND CLASS MACHINISTS AND MACHINE SETTERS

0715-05 INSTRUMENT MAKERS AND REPAIRERS, NON-TRADE

0715-07 FARRIERS (NON-APPRENTICED)

0715-09 TELECOMMUNICATION SKILLED OCCUPATIONS

0715-11 SPECIALIST NON-TRADE CONSTRUCTION OCCUPATIONS

0715-13 BAKERS AND CONFECTIONERS, NON-TRADES

0715-15 GLASS BLOWERS

0715-17 WOOD MACHINISTS AND TURNERS, NON-TRADES

0715-19 POTTERS AND OTHER CRAFT WORKERS

0715-21 FURRIERS

0715-23 SKILLED CLOTHING OCCUPATIONS

0715-25 INSPECTORS AND GRADERS, TEXTILES

0715-27 TREE ATTENDANTS

0715-29 RIGGERS

0715-31 BLASTING OCCUPATIONS

0715-33 ASSISTANT PRINTING MACHINISTS (NON-TRADE)

0715-35 DOGMEN AND CRANE CHASERS

0715-37 PERFORMING ARTS SUPPORT OCCUPATIONS

0715-39 DIVERS AND RELATED OCCUPATIONS

0715-41 VEHICLE REPAIRERS, NON-TRADE

**0715-43 MOTION PICTURE PROJECTIONISTS****0715-45 TRAINEE GLASS BLOWERS****0715-47 TRAINEES, TELECOMMUNICATION SKILLED OCCUPATIONS****0715-49 SERVICEMEN/WOMEN ELECTRO-MECHANICAL EQUIPMENT****0715-01 METAL POLISHERS, SECOND CLASS**

This unit group covers occupations involved with carrying out a single polishing process to produce a smooth finished surface on metal products.

**Entry Requirements:** Year 9-10.

**Activities:** Positioning and attaching polishing head to machine; setting controls to regulate speed and angle; manipulating article to hold against polishing head; and applying abrasive substance to head.

**Occupations:**

0715-0101 Metal Polisher, Second Class

**0715-03 SECOND CLASS MACHINISTS AND MACHINE SETTERS**

This unit group covers occupations concerned with operating or setting up and operating only one or a few machine tools, using preset measuring instruments and working from standardised drawings or specifications.

**Entry Requirements:** 2-3 years' experience.

**Activities:** Studying and following instruction; securing cutting and shaping tools in machine tools or machines; setting specified speed, pressure and depth of cut and/or operating machine tools or machines to produce required items; and checking product dimensions.

**Occupations:**

0715-0301 Machinist, Second Class

0715-0303 Tool and Die Setter

**0715-05 INSTRUMENT MAKERS AND REPAIRERS, NON-TRADE**

This unit group covers occupations concerned with repairing small arms, knives and hand tools.

**Entry Requirements:** In some cases Year 10.

**Activities:** Dismantling and reassembling small arms, replacing or modifying faulty parts thereof; testing metal surfaces to resist corrosion; testing repaired weapons; and sharpening and repairing knives and hand tools.

**Occupations:**

0715-0501 Gunsmith

0715-0599 Instrument Makers and Repairers, nec

**0715-07 FARRIERS (NON-APPRENTICED)**

This unit group covers occupations concerned with shoeing horses.

**Entry Requirements:** Year 10-12 plus 6-12 months' training and 2-3 years' experience.

**Activities:** Removing old shoes; trimming and shaping hooves; measuring shoe against hoof; using heat, hammer and anvil to shape shoe; and fitting shoe to hoof.

**Occupations:**

0715-0701 Farrier (Non-Apprenticed)

**0715-09 TELECOMMUNICATION SKILLED OCCUPATIONS**

This unit group covers non-trade, skilled occupations concerned with maintaining and repairing communication lines and cables.

**Entry Requirements:** Year 11 plus 2-5 years' training and 2 years' experience.

**Activities:** Installing, maintaining and locating faults in all types of external telecommunication plant, including less complex customer equipment.

**Occupations:**

0715-0901 Telecommunication Line Serviceman/woman

0715-0903 Assistant Technician (Telecommunication)

**0715-11 SPECIALIST NON-TRADE CONSTRUCTION OCCUPATIONS**

This unit group covers specialist non-trade construction occupations concerned with structural steel erecting (rigging), scaffolding, concrete finishing, steel fixing, lagging or installing insulation.

**Entry Requirements:** No formal requirements, but persons entering the occupations of structural steel erector or scaffolder must meet state age requirements and complete basic vocational courses in order to obtain appropriate State licences or certificates.

**Activities:** Examining plans and specifications; directing activities of assistants and other workers; setting out work; cutting materials to size and shape; fixing materials in place; erecting and dismantling structural steel frames and scaffolds; pouring, spreading, smoothing and finishing concrete; positioning and securing steel bars and steel mesh in concrete forms; installing and applying insulating materials to equipment and structures; and checking alignment of work.

**Occupations:**

0715-1101 Structural-Steel Erector

0715-1103 Scaffolder

0715-1105 Concrete Finisher

0715-1107 Steel Fixer

0715-1109 Lagger

**0715-13 BAKERS AND CONFECTIONERS, NON-TRADES**

This unit group covers occupations concerned with assisting bakers, confectioners and pastry cooks.

**Entry Requirements:** Year 10-11.

**Activities:** Assembling supplies, weighing, and mixing confectionery ingredients; operating confectionery and biscuit making machines; loading and unloading trays and ovens; glazing and icing pastries; and cleaning apparatus.

**Occupations:**

0715-1301 Confectioner's Assistant

0715-1303 Assistant Pastrycook

0715-1305 Assistant Baker

0715-1307 Biscuitmaker

**0715-15 GLASS BLOWERS**

This unit group covers occupations concerned with conceiving form, developing specifications, and operating machines and using tools in the preparation and forming of glass products.

**Entry Requirements:** Year 9-10.

**Activities:** Conceiving style and form of glass products by flowing and sculpturing semi-finished free-form glass objects into final form using blowpipes and hand tools; developing specifications for scientific apparatus; blowing and shaping glass tubing to form apparatus and components; and operating glass blowing lathe to join and shape glass tubing.

**Occupations:**

- 0715-1501 Glass Blower, Molten Tank
- 0715-1503 Scientific Glass Apparatus Blower
- 0715-1505 Glass Blowing Lathe Operator
- 0715-1599 Glass Workers, nec

**0715-17 WOOD MACHINISTS AND TURNERS, NON-TRADES**

This unit group covers occupations concerned with setting up, operating and maintaining less complex woodworking machines.

**Entry Requirements:** Year 9-11.

**Activities:** Setting up and operating less complex machines that saw, sand, plane, mill, mortice, or drill wooden workpieces.

**Occupations:**

- 0715-1701 B Grade Wood Machinist
- 0715-1703 Automatic Wood Turning Lathe Operator
- 0715-1705 Semi-automatic Wood Turning Lathe Operator

**0715-19 POTTERS AND OTHER CRAFT WORKERS**

This unit group covers occupations concerned with producing the handmade craft products using materials other than leather, glass or wood.

**Entry Requirements:** No formal requirements; artistic ability. Formal courses however, exist in some areas.

**Activities:** Moulding plastic clay to form handcrafted pottery; selecting, shaping and/or decorating materials such as metal, plastic, paper, fibres or fabric in order to produce artistic work; and marketing finished products.

**Occupations:**

- 0715-1901 Potter
- 0715-1999 Craft Occupations, nec

**Related Occupations:**

- 0713-1199 Woodworkers, nec
- 0713-2101 Leather Worker
- 0715-1599 Glass Workers, nec

**0715-21 FURRIERS**

This unit group covers occupations concerned with the sorting and cutting of skins, and the fabrication and repair of fur garments.

**Entry Requirements:** Year 9, and 2-3 years' experience.

**Activities:** Restyling fur garments; selecting and laying out pelts; nailing pelts to pattern; cutting pelts required to make, alter or repair garments for other fur articles; removing worn pelts; sewing pelts together; trimming and lining garments etc.

**Occupations:**

- 0715-2101 Furrier, General
- 0715-2103 Fur Cutter

**Related Occupations:**

- 1011-0705 Cutter Hand, Furriers

**0715-23 SKILLED CLOTHING OCCUPATIONS**

This unit group covers skilled non-trade occupations concerned with the design, fabrication and fitting of items of apparel.

**Entry Requirements:** Generally Year 10, with some on-the-job training and, in some cases, a para-professional certificate.

**Activities:** Drafting patterns, sewing garments, fabricating womens' hats; fitting garments on customers and costumes on performers; making alterations to garments.

**Occupations:**

- 0715-2301 Wardrobe Co-ordinator
- 0715-2303 Wardrobe Assistant
- 0715-2305 Patternmaker/Grader (Textiles)

- 0715-2307 Milliner

- 0715-2309 Sample Hand, Apparel

**Related Occupations:**

- 0713-15 Tailors (Unit Group)
- 0713-17 Garment Makers, Except Tailors (Unit Group)

**0715-25 INSPECTORS AND GRADERS, TEXTILES**

This unit group covers occupations concerned with the classing and grading of leather, fur and wool for particular uses or to accepted industry standards.

**Entry Requirements:** Year 8-10 and/or basic vocational/para-professional qualifications with up to 2 years' work experience.

**Activities:** Laying out fleeces, skins, hides or pelts; inspecting for quality and size, cleanness, colour and density; removing defective parts; assigning gradings or classes to material worked on; recording information such as quantity and quality.

**Occupations:**

- 0715-2501 Leather Grader
- 0715-2503 Fur Grader
- 0715-2505 Hide and Skin Classer
- 0715-2507 Wool Classer

**0715-27 TREE ATTENDANTS**

This unit group covers occupations concerned with improving the health or appearance of ornamental trees.

**Entry Requirements:** Year 10, 2-3 years' training and 1 year's experience.

**Activities:** Pruning and treating ornamental trees to improve their health and appearance; and inspecting, diagnosing, advising on and treating trees which are in poor health or dangerous.

**Occupations:**

- 0715-2701 Tree Attendant

**0715-29 RIGGERS**

This unit group covers occupations concerned with assembling and installing rigging gear to move heavy objects.

**Entry Requirements:** Possession of appropriate certificate of competency.

**Activities:** Selecting gear; assessing weight of object to be moved; assembling gear; slinging loads; and signalling crane and winch operators to lift and move gear.

**Occupations:**

- 0715-2901 Rigger

**0715-31 BLASTING OCCUPATIONS**

This unit group covers occupations concerned with preparing, charging and detonating explosives in mines.

**Entry Requirements:** Generally Year 9-10 and 1-3 years' experience.

**Activities:** Drilling holes for explosives; setting charges; attaching detonators and fuses to charges; lighting fuses; operating electric detonating devices; and carrying out safety procedures.

**Occupations:**

- 0715-3101 Shot Firer (Underground Mining)
- 0715-3103 Shot-Firer (Open Cut Mining)
- 0715-3105 Shooter, Seismograph
- 0715-3107 Stope Miner

**Related Occupations:**

- 0105-1309 Foreman/Woman, Other Stationary Equipment Operators
- 0105-1311 Foreman/Woman, Other Mining Occupations

**0715-33 ASSISTANT PRINTING MACHINISTS (NON-TRADE)**

This unit group covers occupations concerned with the operation of printing machines.

**Entry Requirements:** Year 9-10.

**Activities:** Mixing inks; setting type; setting up machine; operating feeding mechanism and ensuring supply of paper and ink; and undertaking routine repairs and maintenances.

**Occupations:**

- 0715-3301 Assistant Machinist, Newspaper Press
- 0715-3303 Assistant Offset Lithographic Printing Machinist
- 0715-3305 Printing Machine Operator

**Related Occupations:**

- 0707 Printing Tradespersons and Apprentices (Minor Group)

**0715-35 DOGMEN AND CRANE CHASERS**

This unit group covers occupations concerned with slinging and directing the movement of loads handled by crane or winch in locations such as manufacturing plants, high rise and ground level construction sites.

**Entry Requirements:** A certificate of competency.

**Activities:** Examining load; consulting load charts; selecting slings and other appropriate grappling devices; attaching grappling device and loading slings; ensuring load is secure and balanced; that path is clear; and safety requirements are met.

**Occupations:**

- 0715-3501 Dogman/woman
- 0715-3503 Crane Chaser

**0715-37 PERFORMING ARTS SUPPORT OCCUPATIONS**

This unit group covers occupations concerned with assisting with the presentation of radio, television, motion picture and stage performances.

**Entry Requirements:** Year 10-11, para-professional certificate or equivalent training of 3-4 years'.

**Activities:** Studying requirements of parts and applying make-up to performers to alter appearance to fit roles; and designing, fabricating and using devices for broadcasting, motion picture and stage productions.

**Occupations:**

- 0715-3701 Make-up Artist
- 0715-3703 Special Effects Person
- 0715-3799 Performing Arts Support Occupations, nec

**Related Occupations:**

- 0499-9919 Property Supervisor (Performing Arts)
- 0105-0107 Lighting Supervisor
- 0715-2301 Wardrobe Co-Ordinator

**0715-39 DIVERS AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with performing and assisting in underwater activities related to fluids drilling, salvage or scientific or exploratory purposes.

**Entry Requirements:** Year 10 in some cases plus up to 8 years' experience, and generally an appropriate basic vocational or other certificate.

**Activities:** Swimming or walking underwater wearing wetsuit or other protective clothing; using SCUBA or other underwater breathing equipment; salvaging underwater objects; repairing underwater structures using cutting and welding equipment, and hand, hydraulic and pneumatic tools; using still and cine-cameras; and operating saturation tank.

**Occupations:**

- 0715-3901 Offshore Diver
- 0715-3903 Onshore Diver
- 0715-3905 Saturation Technician

**0715-41 VEHICLE REPAIRERS, NON-TRADE**

This unit group covers occupations concerned with minor repairing of vehicles.

**Entry Requirements:** No formal requirements; about 1 year's on-the-job training.

**Activities:** Repairing bicycles; balancing wheels; minor repairing of tyres and tubes; and fitting of tyres and tubes.

**Occupations:**

- 0715-4101 Vehicle Repairer, Non-Trade

**0715-43 MOTION PICTURE PROJECTIONISTS**

This unit group covers occupations concerned with operating motion picture projection and related equipment for the display of films and for entertainment or education.

**Entry Requirements:** A para-professional certificate.

**Activities:** Selecting particular film in correct sequence; inserting film into projector; adjusting sound, focus and timing; ensuring continuity between reels of film; and observing quality of film in order to locate and repair defects.

**Occupations:**

- 0715-4301 Motion Picture Projectionist

**0715-45 TRAINEE GLASS BLOWERS**

This unit group covers trainee Occupations in glass products forming.

**Entry Requirements:** Year 9-10.

**Activities:** Receiving instruction in glass products forming.

**Occupations:**

- 0715-4501 Trainee Glass Blower, Molten Tank

**0715-47 TRAINEES, TELECOMMUNICATION SKILLED OCCUPATIONS**

This unit group covers occupations concerned with assisting telecommunication linesmen/women.

**Entry Requirements:** Year 10.

**Activities:** Assisting and receiving instruction in the installation, maintenance, repair and storage of telecommunication external plant and equipment.

**Occupations:**

- 0715-4701 Trainee Lines Serviceman/woman
- 0715-4703 Telecommunication Lineman/woman's Assistant

**0715-49 SERVICEMEN/WOMEN, ELECTRO-MECHANICAL EQUIPMENT**

This unit group covers occupations concerned with the repair and maintenance of electrically or electronically operated equipment, usually for household or small-scale commercial use, which incorporate mechanical functions.

**Entry Requirements:** Year 9-10 plus several months' on-the-job training.

**Activities:** Examining machine or consulting customer to determine problem; dismantling machine using spanners, screwdrivers etc.; repairing damaged components using soldering iron, pliers etc.; and replacing seriously damaged components.

**Occupations:**

- 0715-4901 Serviceman/woman, Electro-Mechanical Equipment

## **MAJOR GROUP 08**

### **SKILLED AGRICULTURAL OCCUPATIONS**

This major group contains occupations concerned with the growing of crops, care and training of animals, supervision of farm workers and management of farms/stations, and other skilled duties directly associated with agriculture.

Excluded from the group are similar occupations concerned with the growing of ornamental trees and shrubs and shoeing of horses. These occupations are located in Major Group 07: TRADES AND OTHER SKILLED OCCUPATIONS (EXCEPT AGRICULTURE).

Occupations in this major group are classified by type of farm and/or particular skill required.

Within minor groups, unit groups are distinguished from each other by the type of field crop grown, animal raised, crop grown and/or specific skill.

Occupations in this major group are classified into the following minor groups:

0801 FIELD CROP AND/OR LIVESTOCK PRODUCERS

0803 HORTICULTURAL CROP GROWERS

0899 OTHER SKILLED AGRICULTURAL OCCUPATIONS

## MINOR GROUP 0801 FIELD CROP AND/OR LIVESTOCK PRODUCERS

This minor group contains occupations concerned with organising and controlling farms for growing field crops, raising livestock or both growing field crops and raising livestock.

Occupations in this minor group are classified into the following unit groups:

- 0801-01 FIELD CROP GROWERS
- 0801-03 LIVESTOCK PRODUCERS
- 0801-05 FARMERS, MIXED PRODUCE

### 0801-01 FIELD CROP GROWERS

This unit group covers occupations concerned with organising and controlling the operation of farms specialising in growing field crops.

**Entry Requirements:** A trade/para-professional/associate diploma qualification in agricultural science specialising in field crops or related area, or equivalent experience.

**Activities:** Long and short term planning and decision making with regard to farm tasks (such as ploughing, planting, harvesting, crop marketing); preparing and maintaining farm records; hiring, training and supervising workers; selecting and purchasing equipment and supplies, e.g. seed grain, planting and harvesting machinery; and participating in the daily work of the farm.

**Occupations:**

- 0801-0101 Cereal Grain and Oilseed Grower
- 0801-0103 Sugar Cane Grower
- 0801-0105 Tobacco Grower
- 0801-0199 Field Crop Growers, nec

**Related Occupations:**

- 0801-05 Farmers, Mixed Produce (Unit Group)

### 0801-03 LIVESTOCK PRODUCERS

This unit group covers occupations concerned with organising and controlling the operation of farms or stations specialising in raising livestock such as sheep, cattle and poultry for products such as wool, meat, milk and/or eggs, or for breeding stock (except in conjunction with commercial crop growing).

**Entry Requirements:** A trade/para-professional/associate diploma qualification in agricultural science specialising in livestock or a related area, or equivalent experience.

**Activities:** Long and short term planning and decision making with regard to care and maintenance, breeding and marketing

of stock; preparing and maintaining farm records; hiring, training and supervising workers; selecting and purchasing equipment and supplies, e.g. breed stock, fodder and machinery; growing fodder for own use; and participating in the daily general work of the farm.

**Occupations:**

- 0801-0301 Beef Cattle Farmer
- 0801-0303 Dairy Farmer
- 0801-0305 Sheep Farmer
- 0801-0307 Goat Farmer
- 0801-0309 Pig Farmer
- 0801-0311 Poultry Farmer, Egg Production
- 0801-0313 Poultry Farmer, Meat Production
- 0801-0315 Horse Breeder
- 0801-0317 Mixed Livestock Farmer
- 0801-0399 Livestock Producers, nec

**Related Occupations:**

- 0801-05 Farmers, Mixed Produce (Unit Group)

### 0801-05 FARMERS, MIXED PRODUCE

This unit group covers occupations concerned with organising and controlling the operation of farms whose activities include both the raising of livestock and the growing of field crops.

**Entry Requirements:** A trade/para-professional certificate/associate diploma in agricultural science or related area or equivalent experience.

**Activities:** Long and short term planning and decision making with regard to the running of the farm; preparing and maintaining farm records; hiring, training and supervising workers; selecting and purchasing equipment and supplies, e.g. seed grain, breed stock, fodder, planting and harvesting machinery; marketing livestock and grain crops; and participating in the general work of the farm.

**Occupations:**

- 0801-0501 Farmer, Mixed Produce

## MINOR GROUP 0803 HORTICULTURAL CROP GROWERS

This minor group contains occupations concerned with organising and controlling the running of farms for growing fruit and vegetable products.

Occupations in this minor group are classified into the following unit groups:

- 0803-01 HORTICULTURAL CROP GROWERS

### 0803-01 HORTICULTURAL CROP GROWERS

This unit group covers occupations concerned with organising and controlling the operation of farms whose activities include

the growing of fruit and vegetable products including nuts, flowers and ornamental shrubs.

**Entry Requirements:** A trade/para-professional certificate/associate diploma qualification in horticultural or a related area, or equivalent experience.

**Activities:** Long and short term planning and decision making with regard to the running of the farm; preparing and maintaining farm records; hiring, training and supervising workers; purchasing seeds and/or young plants, equipment and supplies; preparing land; planting, protecting, pruning, thinning and harvesting crops; fertilising and irrigating farmland; grading, storing, packing and marketing crops; and participating in daily work of arm. the farm.

**Occupations:**

- 0803-0101 Perennial Horticultural Crop Grower
- 0803-0103 Vegetable (Annual Horticultural Crop) Grower
- 0803-0199 Horticultural Crop Growers, nec

**Related Occupations:**

- 0713-3101 Nursery Man/Woman
- 0713-3103 Gardener, Public Gardens
- 0713-3107 Gardener, Private Gardens

## MINOR GROUP 0899 OTHER SKILLED AGRICULTURAL OCCUPATIONS

This minor group contains skilled occupations, both trade and non-trade and apprentice in crop raising (other than field crops, or horticulture) and the caring for and training of animals (except livestock).

Occupations in this minor group are classified into the following unit groups:

- 0899-01 ANIMAL (EXCEPT LIVESTOCK) PRODUCERS
- 0899-03 APPRENTICE FARMING OCCUPATIONS
- 0899-05 AGRICULTURAL OVERSEERS
- 0899-07 SHEEP SHEARERS
- 0899-09 ANIMAL HUSBANDRY AND TRAINING OCCUPATIONS
- 0899-99 OTHER SKILLED AGRICULTURAL OCCUPATIONS, NEC

### 0899-01 ANIMAL (EXCEPT LIVESTOCK) PRODUCERS

This unit group covers occupations concerned with organising and controlling of farms whose activities include the raising of animals (other than livestock) for sale, hire or products therefrom.

**Entry Requirements:** A trade/para-professional certificate/associate diploma in agricultural science or related area or equivalent experience.

**Activities:** Long and short term planning and decision making with regard to the running of the farm; preparing and maintaining farm records; hiring, training and supervising workers; selecting and purchasing breeding stock, equipment and supplies; marketing animals or products; and participating in daily work of the farm.

**Occupations:**

- 0899-0101 Apiarist
- 0899-0199 Animal (Except Livestock) Producers, nec

### 0899-03 APPRENTICE FARMING OCCUPATIONS

This unit group covers apprentice occupations who receive instruction and training in the trade of farming, trainee farm managing or farm hands.

**Entry Requirements:** Year 10 and minimum age of 15 years.

**Activities:** As per Master Title APPRENTICE; assisting owner with the operation of the farm in the capacity as a trainee farm anager or overseer; performing under supervision a variety of duties on livestock, horticultural, field crop or mixed produce farms; and participating in daily work of the farm.

**Occupations:**

- 0899-0301 Farm Apprentice
- 0899-0303 Trainee Farm Manager

### 0899-05 AGRICULTURAL OVERSEERS

This unit group covers occupations concerned with supervising and co-ordinating the activities of farm workers

under the direction of the farm owner or manager.

**Entry Requirements:** Certificate/associate diploma in management or related area and/or 4-5 years' experience.

**Activities:** As per Master Title SUPERVISOR/FOREMAN/WOMAN; supervising and co-ordinating the activities of workers engaged in planting, cultivating, spraying, irrigating and harvesting crops; breeding, raising and caring for livestock and other animals; and preparing farm produce for marketing.

**Occupations:**

- 0899-0501 Overseer, Farm
- 0899-0503 Overseer, Shearing Shed

### 0899-07 SHEEP SHEARERS

This unit group covers occupations concerned with sheep shearing.

**Entry Requirements:** 6-12 months' experience.

**Activities:** Shearing, fleece/reparation, basic treatment of sheep skin cuts.

**Occupations:**

- 0899-0701 Shearer

### 0899-09 ANIMAL HUSBANDRY AND TRAINING OCCUPATIONS

This unit group covers occupations concerned with training and caring for animals and breaking horses.

**Entry Requirements:** Vary according to the type of animal and the purpose of training.

**Activities:** Directing, supervising and performing duties to train animals such as racing horses and dogs, guide dogs and circus animals. May feed, exercise and care for animals under the supervision of stud master or head trainer. May break horses for riding or harness.

**Occupations:**

- 0899-0901 Horse Trainer
- 0899-0903 Groom (Horse)

- 0899-0905 Horse Breaker
- 0899-0999 Animal Husbandry and Training Occupations,  
nec

**Related Occupations:**

- 0701-1303 Master Farrier (Apprenticed)
- 0715-0701 Farrier (Non-Apprenticed)

**0899-99 OTHER SKILLED AGRICULTURAL  
OCCUPATIONS**

This unit group covers skilled farming and related occupations not elsewhere classified.

**Occupations:**

- 0899-9901 Artificial Insemination Technician
- 0899-9903 Serviceman/woman, Chicken Meat
- 0899-9905 Shearing Shed Expert
- 0899-9999 Other Skilled Agricultural Occupations, nec

## **MAJOR GROUP 09**

### **PLANT OPERATING AND RELATED OCCUPATIONS**

This major group contains occupations involved in operating mobile and heavy stationary equipment, and occupations which control such equipment from remote control stations. Because of the nature of the equipment operated, the group therefore includes certain occupations involved in the processing of raw materials and the manufacture of products, eg. firing wood and clay products, smelting metals and manufacturing some chemical and petroleum products.

Apart from these processing occupations, this major group excludes machine operating occupations in the manufacturing sector. These occupations are to be found in Major Group 10: PROCESSING, FABRICATING AND RELATED OCCUPATIONS.

Minor groups in this major group are distinguished on the basis of the type of equipment or plant operated; unit groups within minor groups are distinguished on the basis of the same criterion more finely disaggregated. This criterion has reference to the similarity of tasks performed, and reflects both skill level and skill specialisation.

At minor group level, the initial distinction made is between mobile and stationary equipment. Mobile equipment has been defined as equipment mounted on wheels or tracks which must be mobile for its functions to be performed (eg. bulldozers). Therefore, plant which is similarly mounted on wheels or tracks and which moves to a work site, yet which is stationary during its operation, is defined as stationary equipment (e.g. Cementer, Oil Well).

Mobile Equipment Operators are divided into two minor groups according to the type of equipment used and the functions performed by the equipment. Similarly, Stationary Equipment Operators are divided into three minor groups.

Within minor groups, unit groups are distinguished from each other on the basis of the specific kind of plant or equipment operated. For example, furnace operators are distinguished from pump operators. The unit groups therefore indicate potential mobility paths for workers which may, in many cases, cut across industry boundaries.

Also included in this major group are Assistant Plant Operators and Trainee plant operators. Assistants and trainees have been classified into separate unit groups within the appropriate minor groups.

Occupations in this major group are classified into the following minor groups:

- 0901 ROAD AND RAIL TRANSPORT DRIVERS
- 0903 OTHER MOBILE EQUIPMENT OPERATORS
- 0905 CONTINUOUS PLANT OPERATORS
- 0907 HOISTING AND LOADING EQUIPMENT OPERATORS
- 0909 OTHER STATIONARY EQUIPMENT OPERATORS

## MINOR GROUP 0901

### ROAD AND RAIL TRANSPORT DRIVERS

This minor group contains occupations which are concerned with driving all registered motor vehicles on road systems and with driving locomotives on public and private railway lines for the transport of persons and goods.

Occupations in this minor group are classified into the following unit groups:

- 0901-01 BUS AND TRAM DRIVERS
- 0901-03 AUTOMOBILE DRIVERS
- 0901-05 TRUCK DRIVERS
- 0901-07 LOCOMOTIVE ENGINEMEN/WOMEN
- 0901-09 OTHER LOCOMOTIVE DRIVERS

#### 0901-01 BUS AND TRAM DRIVERS

This unit group covers occupations which are concerned with driving buses and trams to transport passengers.

**Entry Requirements:** Bus drivers require possession of a driving licence for approximately 4 years; tram drivers require 2-3 months' experience as a conductor.

**Activities:** Operating a motor-powered bus over established or special routes to transport persons; operating an electric-powered tram car to transport passengers on an urban tramway system; maintaining a watch for intending passengers; and responding to requests to stop vehicle for passengers to alight.

**Occupations:**

- 0901-0101 Bus Driver
- 0901-0103 Tram Driver

#### 0901-03 AUTOMOBILE DRIVERS

This unit group covers occupations concerned with driving automobiles to transport passengers.

**Entry Requirements:** Possession of a car driver's licence and 1 year's experience.

**Activities:** Operating an automobile for an individual, business, government or other organisation for a set wage or operating a taxi-cab or hire car for a fee; and meeting passengers and conveying them to destinations.

**Occupations:**

- 0901-0301 Chauffeur/Chauffeuse
- 0901-0303 Hire Car Driver
- 0901-0305 Taxi Driver
- 0901-0307 Courier, Road Transport

#### 0901-05 TRUCK DRIVERS

This unit group covers occupations concerned with operating trucks to transport goods.

**Entry Requirements:** Possession of a car driver's licence and six months' experience. For certain types of vehicle a special licence is required.

**Activities:** Packing items for delivery; ensuring that load is correctly stowed; driving motor trucks or diesel/diesel-electric haul trucks to transport goods and materials; arranging unloading of items or dumping of materials such as ores and waste materials; and verifying relevant documents.

**Occupations:**

- 0901-0501 Truck Driver, Light
- 0901-0503 Truck Driver, Heavy
- 0901-0505 Truck Driver, Articulated
- 0901-0507 Furniture Removalist/Driver
- 0901-0509 Haul Truck Operator

#### 0901-07 LOCOMOTIVE ENGINEMEN/WOMEN

This unit group covers occupations concerned with driving locomotives and passenger trains.

**Entry Requirements:** Year 8-10 plus 3-5 years' relevant experience.

**Activities:** Driving diesel-electric, electric and diesel-hydraulic locomotives and electric or diesel suburban-type passenger trains; servicing stations by stopping for passengers or freight as appropriate; and observing signals.

**Occupations:**

- 0901-0701 Locomotive Engineman/woman

#### 0901-09 OTHER LOCOMOTIVE DRIVERS

This unit group covers occupations concerned with assisting locomotive enginemen/women and with driving locomotives to transport ore and other material in underground mines.

**Entry Requirements:** In some cases Year 8-10; otherwise no formal requirements.

**Activities:** Driving battery-powered locomotives in underground mines; dumping ore from trucks into ore or waste pass; and assisting the engineman/woman in the driving duties of a diesel-electric, electric or diesel-hydraulic locomotive.

**Occupations:**

- 0901-0901 Locomotive Assistant
- 0901-0903 Locomotive Driver, Underground Mine

## MINOR GROUP 0903 OTHER MOBILE EQUIPMENT OPERATORS

This minor group contains occupations concerned with operating mobile equipment (other than transport equipment) used for earthmoving, lifting and stacking objects, felling and loading trees and logs, paving and surfacing roads, clearing land and planting, cultivating and treating crops and plants.

Occupations in this minor group are classified into the following unit groups:

- 0903-01 EXCAVATING AND EARTHMOVING EQUIPMENT OPERATORS
- 0903-03 FORKLIFT DRIVERS AND RELATED OCCUPATIONS
- 0903-05 LOGGING PLANT OPERATORS
- 0903-07 PAVING AND SURFACING EQUIPMENT OPERATORS
- 0903-09 FARM MACHINERY OPERATORS
- 0903-11 TRAINEES MOBILE PLANT OPERATORS
- 0903-99 OTHER MOBILE EQUIPMENT OPERATORS

### 0903-01 EXCAVATING AND EARTHMOVING EQUIPMENT OPERATORS

This unit group covers occupations concerned with operating mobile equipment to excavate, level, load, move and/or deposit ore, rock, earth, gravel, sand and other materials in construction, forestry, mining and other projects.

**Entry Requirements:** Year 9-10 and 3 months'-4 years' relevant experience.

**Activities:** Selecting, installing, changing and adjusting special attachments; positioning equipment at required work site; examining specifications to determine work to be done; manoeuvring equipment over working area; operating controls to cut, excavate, level and haul material. Equipment operated includes shovels, graders, bulldozers, scrapers, draglines, back-hoes, loaders, dredges, bucket-wheel excavators, longwall miners and continuous miners.

#### Occupations:

- 0903-0101 Shovel Operator
- 0903-0103 Grader Operator
- 0903-0105 Bulldozer Operator
- 0903-0107 Scraper Operator (Earthmoving)
- 0903-0109 Dragline Operator, Open Cut Mining
- 0903-0111 Back-Hoe Operator
- 0903-0113 Trench-Digging Machine Operator
- 0903-0115 Front-End Loader Operator
- 0903-0117 Diesel Loader Operator
- 0903-0119 Continuous Miner Driver, Underground Coal Mine
- 0903-0121 Mechanical Bogger Driver
- 0903-0123 Bucketwheel-Excavator Operator
- 0903-0125 Longwall Miner Operator, Underground Coal Mine
- 0903-0127 Dredge Operator
- 0903-0129 Underground Truck Driver
- 0903-0131 Shuttle Car Driver, Underground Coal Mine

### 0903-03 FORKLIFT DRIVERS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with operating forklifts, straddle trucks and specialised equipment, such as stacker cranes and high density order pickers to lift, stack and move objects such as crates, cartons, bales and shipping containers.

**Entry Requirements:** In most cases possession of appropriate certificate of competency.

**Activities:** Operating controls to drive or move equipment; aligning lift mechanism with item to be moved; and moving and stacking goods.

#### Occupations:

- 0903-0301 Fork Lift Driver
- 0903-0303 Straddle Carrier Operator
- 0903-0399 Fork Lift Drivers and Related Occupations, nec

### 0903-05 LOGGING PLANT OPERATORS

This unit group covers occupations concerned with operating mobile plant such as skidders, forwarders and log-loading machines to fell, load and transport trees or logs on logging sites

**Entry Requirements:** Year 8-10 plus satisfactory completion of an appropriate training course and 1 year's experience in some cases.

**Activities:** Driving equipment between cutting area and roadside loading area; operating controls to position booms, grapples and blades around trees to be felled or sawn or around, or under logs to be lifted, loaded and released onto pile or logging truck; and servicing equipment.

#### Occupations:

- 0903-0501 Plant Operator, Felling and Processing
- 0903-0503 Skidder Operator
- 0903-0505 Forwarder Operator
- 0903-0507 Log Loading Machine Operator

#### Related Occupations:

- 0901-0503 Truck Driver, Heavy
- 0903-0105 Bulldozer Operator

### 0903-07 PAVING AND SURFACING EQUIPMENT OPERATORS

This unit group covers occupations concerned with operating mobile paving machines and road rollers on construction projects.

**Entry Requirements:** No formal requirements, but must meet state age requirements in order to obtain appropriate state licences.

**Activities:** Driving plant along specified route; observing and controlling distribution of surfacing material; lubricating and cleaning plant; and making minor repairs.

**Occupations:**

- 0903-0701 Paving Machine Operator
- 0903-0703 Road Roller Operator
- 0903-0799 Paving and Surfacing Equipment Operators, nec

**0903-09 FARM MACHINERY OPERATORS**

This unit group covers occupations concerned with operating tractor-drawn or self-propelled farm machinery and machinery specialised for use in amenity horticulture to clear and cultivate land, and plant, treat and/or harvest crops and plants.

**Entry Requirements:** Year 10 plus 6-12 months' experience.

**Activities:** Driving equipment to work site; operating controls to plough, fertilise, cultivate, spray and harvest; and servicing machinery.

**Occupations:**

- 0903-0901 Farm Machinery Operator
- 0903-0903 Operator, Amenity Horticulture Machinery

**0903-11 TRAINEES MOBILE PLANT OPERATORS**

This unit group covers occupations concerned with receiving training in the operation of mobile equipment and with

assisting mobile plant operators.

**Entry Requirements:** No formal requirements and 6-12 months' experience.

**Activities:** Guiding plant operators during operations; greasing and oiling plant; preparing and cleaning power cables from tracts; and receiving instruction in the operation of the plant.

**Occupations:**

- 0903-1101 Shovel Greaser
- 0903-1103 Dragline Oiler
- 0903-1199 Trainees Mobile Plant Operators, nec

**0903-99 OTHER MOBILE EQUIPMENT OPERATORS**

This unit group covers occupations not elsewhere classified concerned with operating mobile equipment.

**Occupations:**

- 0903-9901 Track Repair Machine Operator
- 0903-9903 Shunter, Railway
- 0903-9999 Other Mobile Equipment Operators, nec

## MINOR GROUP 0905 CONTINUOUS PLANT OPERATORS

This minor group contains occupations which are concerned with operating stationary equipment used for continuous processes such as the regulation and supply of water, electricity, steam, heat, refrigeration and mechanical power, the production of medical and industrial gases and of petroleum products, and with operating other stationary equipment from control rooms.

Occupations in this minor group are classified into the following Unit Groups:

- 0905-01 WATER SUPPLY EQUIPMENT OPERATORS
- 0905-03 ELECTRICAL GENERATING EQUIPMENT OPERATORS
- 0905-05 OTHER ENGINE AND BOILER OPERATORS
- 0905-07 PLANT OPERATORS, CHEMICAL PRODUCTS
- 0905-09 PLANT OPERATORS, PETROLEUM PRODUCTS
- 0905-11 OTHER CONTROL ROOM OPERATORS
- 0905-13 ASSISTANTS, CONTINUOUS PLANT OPERATING

**0905-01 WATER SUPPLY EQUIPMENT OPERATORS**

This unit group covers occupations concerned with controlling and operating pumps, gates and valves to regulate flow and supply of water for irrigation and urban and industrial uses.

**Entry Requirements:** Year 10 plus 2 years' experience.

**Activities:** Controlling gates, valves and pumps in aqueduct, dam or pumping station to regulate flow of water; controlling section of irrigation system; determining quantities of water required by users; investigating reports of water leakage and determining action required to repair fault; and preparing reports.

**Occupations:**

- 0905-0101 Storage Supervisor (Water Supply)
- 0905-0103 Water Officer
- 0905-0105 Water Service Operator

**Related Occupations:**

- 0905-11 Other Control Room Operators (Unit Group)

**0905-03 ELECTRICAL GENERATING EQUIPMENT OPERATORS**

This unit group covers occupations concerned with controlling and operating electrical generating and distribution equipment such as boilers, turbo-generators, transformers, circuit breakers, central switchboards and hydro-electric generating equipment.

**Entry Requirements:** In some cases a para-professional certificate plus 4-10 years' experience.

**Activities:** Determining number of generators required to meet power demands; activating and adjusting equipment and controls; observing meters and gauges; planning and performing de-energising of malfunctioning circuits; communicating with related operators; inspecting equipment; compiling records; and cleaning and lubricating equipment.

**Occupations:**

- 0905-0301 Power Plant Controller
- 0905-0303 Power Plant Unit Operator
- 0905-0305 Hydro-Electric Station Operator
- 0905-0307 Distribution Switching Operator

**Related Occupations:**

- 0905-05 Other Engine and Boiler Operators (Unit Group)  
 0905-11 Other Control Room Operators (Unit Group)

**0905-05 OTHER ENGINE AND BOILER OPERATORS**

This unit group covers occupations concerned with operating, controlling and maintaining various types of stationary engines and auxiliary equipment, such as turbines, boilers, furnaces, blowers, compressors, pumps, generators, retorts and motors, used to supply steam, heat, refrigeration, ventilation and air-conditioning, light and mechanical or electrical power in buildings, industrial plants, work-sites, small ships or other installations.

**Entry Requirements:** A basic vocational qualification to obtain an appropriate certificate of competency issued by the requisite State Government Authority.

**Activities:** Operating and controlling equipment; observing and analysing instrument readings to ensure efficient operation; detecting malfunctions; compiling records; and checking, cleaning and lubricating equipment.

**Occupations:**

- 0905-0501 Engine Driver (Except Transport)  
 0905-0503 Marine Engine Driver  
 0905-0505 Refrigeration Operator  
 0905-0507 Air-Conditioning Operator  
 0905-0509 Boiler Attendant  
 0905-0511 Timber Treatment Plant Operator  
 0905-0513 Timber Immunising Plant Operator

**Related Occupations:**

- 0905-03 Electrical Generating Equipment Operators (Unit Group)

**0905-07 PLANT OPERATORS, CHEMICAL PRODUCTS**

This unit group covers occupations concerned with operating plant such as generating equipment, hydraulic presses, conveyors, compressors, blowers, condensers and evaporators in the production of industrial and medical gases.

**Entry Requirements:** Year 10 plus 3 years' experience.

**Activities:** Studying job specifications; operating and controlling equipment; monitoring recording instruments to ensure correct temperature, pressure and flow rate is maintained; and recording production and operational data.

**Occupations:**

- 0905-0701 Acetylene Plant Operator  
 0905-0703 Dry Ice Maker  
 0905-0705 Liquid Gas Plant Operator

**0905-09 PLANT OPERATORS, PETROLEUM PRODUCTS**

This unit group covers occupations concerned with operating plant such as cracking towers, distillation units and steam or electrically heated kettles used in the production and blending of petroleum products.

**Entry Requirements:** Year 10 plus 2-6 years' experience.

**Activities:** Patrolling and inspecting equipment; controlling continuous processes to manufacture finished refined petroleum products; setting controls on control panels to adjust, co-ordinate and maintain process variables; regulating valves, pumps and auxiliary equipment; observing and analysing indicators of temperatures, flows and pressures; reporting defective equipment; and directing assistants.

**Occupations:**

- 0905-0901 Plant Operator, Petroleum Process Units  
 0905-0903 Plant Operator, Grease Manufacture

**0905-11 OTHER CONTROL ROOM OPERATORS**

This unit group covers occupations concerned with operating control panels in remote control rooms. Equipment such as concentrators, rotary dumpers, jaw crushers, sizing screens, conveyor belts, saws, pumps, elevators, stackers, rolling mills, continuous process digesters, absorption towers, and washers are controlled from these consoles.

**Entry Requirements:** In some cases Year 9-10 plus up to 5 years' experience.

**Activities:** Communicating with plant operators and foremen/women by radio, telephone or intercom; starting equipment and adjusting controls; monitoring gauges and recording instruments; detecting malfunctions; and compiling records.

**Occupations:**

- 0905-1101 Deputy Dredge Master/Mistress (Sand Mining)  
 0905-1103 Central Control Room Operator, Ore Processing  
 0905-1105 Crusher Control Room Operator (Primary)  
 0905-1107 Control Room Operator, Coal Preparation Plant  
 0905-1109 Head Sawyer, Sawmill (Remote Control)  
 0905-1111 Resaw Operator (Remote Control)  
 0905-1113 Edgerman/woman (Remote Control)  
 0905-1115 Control Room Operator, Bulk Materials and Fluids Handling  
 0905-1117 Rolling Attendant, Iron and Steel  
 0905-1119 Grinder Operator (Paper Pulp Preparation)  
 0905-1121 Continuous Digester Operator (Paper Pulp Preparation)  
 0905-1123 Screener Operator (Paper Pulp Preparation)  
 0905-1125 Bleacher Operator (Paper Pulp Preparation)  
 0905-1127 Beater Operator (Paper Pulp Preparation)  
 0905-1129 Pulp Dryer Operator (Papermaking)  
 0905-1131 Signaller/woman, Railway  
 0905-1133 Water Treatment Plant Operator  
 0905-1135 Waste Water Treatment Plant Operator  
 0905-1199 Control Room Operators, nec

**0905-13 ASSISTANTS, CONTINUOUS PLANT OPERATING**

This unit group covers occupations concerned with assisting as directed in the operation and maintenance of various types of continuous plant.

**Entry Requirements:** Year 8-9, and in some cases, 1 year's experience.

**Activities:** Cleaning and lubricating equipment; monitoring gauges and indicators; adjusting valves and switches; reporting malfunctions; and making minor repairs.

**Occupations:**

- 0905-1301 Assistant Boiler Attendant  
 0905-1303 Assistant Plant Operator, Petroleum Process Units  
 0905-1305 Assistant Plant Operator, Grease Manufacture  
 0905-1307 Assistant Waste Water Treatment Plant Operator  
 0905-1309 Auxiliary Plant Attendant  
 0905-1311 Marine Greaser  
 0905-1313 Marine Donkeyman/woman  
 0905-1399 Assistants, Continuous Plant Operating, nec

**MINOR GROUP 0907****HOISTING AND LOADING EQUIPMENT OPERATORS**

This minor group contains occupations which are concerned with operating stationary equipment used in hoisting, moving and loading materials.

Occupations in this minor group are classified into the following unit groups:

**0907-01 CRANE OPERATORS**

**0907-03 HOIST, WINCH AND LIFT OPERATORS**

**0907-05 SHIP AND TRAIN LOADING EQUIPMENT OPERATORS**

**0907-07 CONVEYOR BELT OPERATORS**

**0907-09 TRAINEES, HOISTING AND LOADING EQUIPMENT OPERATING**

**0907-01 CRANE OPERATORS**

This unit group covers occupations concerned with operating tower cranes, hydraulic or fixed-job mobile cranes and overhead cabin controlled cranes to lift, move and lower materials in locations such as construction sites, workshops, shipyards, railway yards and wharves.

**Entry Requirements:** Possession of appropriate certificate of competency.

**Activities:** Operating controls to position crane; raising and lowering boom; slow boom or jib; and operate winch to move and position objects at the direction of other workers.

**Occupations:**

0907-0101	Mobile Crane Driver
0907-0103	Tower Crane Driver
0907-0105	Cabin Controlled Overhead Crane Driver
0907-0199	Crane Operators, nec

**0907-03 HOIST, WINCH AND LIFT OPERATORS**

This unit group covers occupations concerned with operating power driven hoists, winches, mine cages, or skips to raise and lower people and materials in locations such as underground mines, construction sites, wharves and sawmills.

**Entry Requirements:** In some cases possession of appropriate certificate of competency; in other cases up to 3 years' experience.

**Activities:** Operating controls to start, stop and regulate speed of equipment; directing loading and unloading of persons and materials; and ensuring adherence to safety regulations.

**Occupations:**

0907-0301	Hoist Operator, Materials and Workers
0907-0303	Winch Operator
0907-0305	Wireline Operator (Electric Line)
0907-0307	Winding Engine Driver
0907-0309	Platman/woman
0907-0311	Skipman/woman
0907-0313	Braceman/woman (Mine Cage)
0907-0399	Hoist, Winch and Lift Operators, nec

**0907-05 SHIP AND TRAIN LOADING EQUIPMENT OPERATORS**

This unit group covers occupations concerned with operating reclaimers, stackers, loaders and other equipment to stack bulk material onto stockpiles, reclaim this material, and load it into or unload it from ships and rail cars.

**Entry Requirements:** No formal requirements, with up to 3 months' experience.

**Activities:** Operating controls to activate equipment; liaising with control room operator and other loader operators; monitoring gauges and indicators to control flow rates of material; compiling reports; cleaning spillage; and cleaning work area.

**Occupations:**

0907-0501	Ship Loader Operator
0907-0503	Bucketwheel Reclaimer Operator
0907-0505	Stacker Operator
0907-0507	Train Loader Operator
0907-0509	Car Dumper Operator
0907-0511	Bulk Materials Handling Equipment Operator, General
0907-0599	Bulk Materials Handling Equipment Operators, nec

**0907-07 CONVEYOR BELT OPERATORS**

This unit group covers occupations concerned with operating and controlling conveyors or conveyor systems to transfer bulk materials from stockpiles or shuttle cars to processing and shipping points or storage locations.

**Entry Requirements:** No formal requirements, with up to 3 months' experience.

**Activities:** Freeing lumps of ore trapped at grizzly grate; shovelling onto conveyor belt; activating conveyor and regulating rate of movement; and cleaning work area.

**Occupations:**

0907-0701	Conveyor Belt Operator, Underground Coal Mine
0907-0703	Conveyor Belt Operator, Bulk Materials Handling
0907-0705	Grizzlyman/woman

**0907-09 TRAINEES, HOISTING AND LOADING EQUIPMENT OPERATING**

This unit group covers occupations concerned with receiving training in the operation of various types of hoisting and loading equipment.

**Entry Requirements:** Year 9.

**Activities:** Assisting the unloading, installation and assembly of equipment; servicing equipment and making minor repairs; and receiving instruction in the operation of the equipment.

**Occupations:**

0907-0901	Wireline Operator Trainee (Electric Line)
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## MINOR GROUP 0909

### OTHER STATIONARY EQUIPMENT OPERATORS

This minor group contains occupations concerned with operating all other heavy stationary equipment not elsewhere classified in this major group.

Occupations in this minor group are classified into the following unit groups:

- 0909-01 PUMPS AND ANCILLARY EQUIPMENT OPERATORS
- 0909-03 FURNACE OPERATORS
- 0909-05 KILN OPERATORS
- 0909-07 DRILL OPERATORS
- 0909-09 WELL SERVICE EQUIPMENT OPERATORS
- 0909-11 ASSISTANTS, OTHER STATIONARY EQUIPMENT OPERATORS
- 0909-13 TRAINEES, OTHER STATIONARY EQUIPMENT OPERATING
- 0909-99 OTHER STATIONARY EQUIPMENT OPERATORS, NEC

#### 0909-01 PUMPS AND ANCILLARY EQUIPMENT OPERATORS

This unit group covers occupations concerned with operating pumps, valves and ancillary equipment such as compressors, scrubbers, evaporators and mixing equipment to blend and transfer gases, liquids and fluidised solids.

**Entry Requirements:** In some cases Year 11-12 and up to 5 years' experience.

**Activities:** Compling hoses, pipes and pipe fittings to pumps and other equipment; operating pumps and adjusting valves; monitoring gauges and indicators to regulate pressure and temperature; reporting operational procedures, gauge readings and results; and servicing equipment.

##### Occupations:

- 0909-0101 Fluids Handler
- 0909-0103 Compressor Turbine Operator
- 0909-0105 Gas Tester
- 0909-0107 Pipe Tester
- 0909-0109 Cementer, Oil Well
- 0909-0111 Well Treatment Blender Operator
- 0909-0113 Well Treatment Pump Operator
- 0909-0115 Hydraulic Fill Operator
- 0909-0117 Plant Operator, Pumping, Blending and Shipping (Petroleum Production)

#### 0909-03 FURNACE OPERATORS

This unit group covers occupations concerned with operating and tending roasters, reduction pots and various types of furnaces, eg. pellet furnaces, open hearth furnaces, blast furnaces, oxygen furnaces and retort furnaces to remove impurities from ore, refine or smelt metals, cremate human bodies and burn other materials.

**Entry Requirements:** No formal requirements, with 5 years' experience in some cases.

**Activities:** Activating furnaces and adjusting controls; patrolling work area; monitoring gauges and other recording instruments; regulating temperatures and flows of air, water, fuel, molten metal; and directing changing of equipment.

##### Occupations:

- 0909-0301 Roaster Operator
- 0909-0303 Furnace Operator (Pellet Plant)
- 0909-0305 Bottom Floor Operator (Pellet Plant)
- 0909-0307 Open Hearth Furnace Operator
- 0909-0309 Blast Furnace Operator (Iron and Steel)
- 0909-0311 Oxygen (BOS) Furnace Operator
- 0909-0313 Pot Operator (Aluminium)
- 0909-0315 Incinerator Plant Attendant
- 0909-0317 Crematorium Operator
- 0909-0319 Carbon Plant Worker
- 0909-0399 Furnace Operators and Attendants, nec

#### 0909-05 KILN OPERATORS

This unit group covers occupations concerned with operating periodic kilns, continuous kilns, kiln dryers, heat treatment ovens, humidifier units and auxiliary equipment to fire clay products to a specified hardness, produce lime or cement clinker, or to dry and treat timber and wood products.

**Entry Requirements:** No formal requirements, but in most cases 1-2 years' experience is required.

**Activities:** Determining production requirements for kiln operation; directing the loading and unloading of products into and out of kilns and ovens; observing indicators of temperature levels; regulating temperatures and moisture conditions; controlling firing and processing times; and inspecting equipment for faults.

##### Occupations:

- 0909-0501 Kiln Operator, Cement/Lime and Clay Products
- 0909-0503 Tunnel Kiln Operator, Clay Products
- 0909-0505 Kiln Dryer Operator (Wood Processing)
- 0909-0507 Kiln Operator (Wood Processing)
- 0909-0509 Ovens and Humidifier Operator

#### 0909-07 DRILL OPERATORS

This unit group covers occupations concerned with operating rotary and percussion drilling equipment, raise boring machines and pneumatic drilling machines to bore blasting holes and to explore for or extract ores, natural gas, oil and water.

**Entry Requirements:** Experience ranging from 1-5 years' is required. In some cases basic vocational certificate courses are available.

**Activities:** Positioning drilling equipment at work-site; assembling equipment by coupling water and air hoses and lubrications, selecting and inserting drill bits into chuck joining casing sections; activating drilling equipment; observing operation of drill and making necessary adjustments to angle, pressure and speed of drill; and carrying out operating and maintenance checks and adjustments.

##### Occupations:

- 0909-0701 Drill Operator, Fluids Drilling
- 0909-0703 Water Well Driller
- 0909-0705 Diamond Driller (Mineral Exploration)
- 0909-0707 Jumbo Drill Operator
- 0909-0709 Raise Boring Machine Operator
- 0909-0711 Long Hole Drill Operator
- 0909-0713 Development Machine Miner
- 0909-0715 Coal Seam Driller
- 0909-0717 Rotary Drill Operator
- 0909-0799 Drill Equipment Operators, Fluids Drilling, nec

#### 0909-09 WELL SERVICE EQUIPMENT OPERATORS

This unit group covers occupations concerned with operating

ruled tubing equipment, derricks, drawworks, power tongs, snubbing units and downhole tools to service oil or natural gas wells by connecting well casing sections, forcing drill pipes into and out of wells, removing broken or stuck drilling equipment from wells, clearing the wells.

**Entry Requirements:** In most cases 1-2 years' experience; in other cases up to 4 years' experience.

**Activities:** Positioning equipment at well site; assembling equipment and installing attachments such as hydraulic lines and well-head devices; operating controls to unreel tubing into wells, to hoist and lower sections of drill pipe into wells, to open and close snubbers which clamp pipes and to turn casing section and join it to casing string; observing gauges to monitor weight, depth and pressure; and servicing equipment and making minor repairs.

**Occupations:**

0909-0901	Reeled Tubing Operator
0909-0903	Service Rig Operator
0909-0905	Power Tong Operator
0909-0907	Snubbing Unit Operator
0909-0909	Fishing Tool Operator

**0909-11 ASSISTANTS, OTHER STATIONARY EQUIPMENT OPERATING**

This unit group covers occupations concerned with assisting as directed in the operation and maintenance of various types of stationary plant such as drills, pumps, well service equipment and blasting equipment.

**Entry Requirements:** Year 9-10.

**Activities:** Driving equipment to worksite; assisting with the positioning, erection and assembly of equipment; adding or removing attachments; and ensuring availability of water, explosives and other necessary materials.

**Occupations:**

0909-1101	Well Treatment Helper
0909-1103	Roughneck
0909-1105	Assistant Shot-Firer
0909-1107	Cementer Helper, Oil Well
0909-1109	Diamond Driller's Assistant (Mineral Exploration)
0909-1111	Water Well Driller's Assistant
0909-1113	Assistant Plant Operator, Pumping, Blending and Shipping (Petroleum Products)
0909-1115	Assistant Driller (Fluids Drilling)
0909-1117	Assistant Plant Operator (Oil Terminal)

**0909-13 TRAINEES, OTHER STATIONARY EQUIPMENT OPERATING**

This unit group covers occupations concerned with viewing training and assisting in the operation of various types of stationary equipment.

**Entry Requirements:** In some cases Year 9.

**Activities:** Receiving instruction in the operation of the equipment; guiding plant operators to position plant; assisting in the installation and replacement of attachments; and keeping worksite clear of obstructions.

**Occupations:**

0909-1301	Rotary Driller's Offsider
0909-1303	Jumbo Operator's Assistant
0909-1305	Reeled Tubing Operator Trainee

**0909-99 OTHER STATIONARY EQUIPMENT OPERATORS, NEC**

This unit group covers occupations not elsewhere classified concerned with the operation of stationary equipment, other than continuous plant or hoisting and loading equipment.

**Occupations:**

0909-9901	Vibrator Operator, Seismic Prospecting
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## **MAJOR GROUP 10**

### **PROCESSING, FABRICATING AND RELATED OCCUPATIONS**

This major group contains semi-skilled, non-trades occupations normally located in a factory environment, involved in the use of machines, hand tools and manual operations for the treatment and processing of raw materials and foodstuffs, and the fabricating, assembling, quality control and packaging of manufactured items.

Excluded from this group are kiln, furnace and continuous plant operating occupations principally concerned with minerals and metal smelting and refining. These occupations are located in Major Group 09: PLANT OPERATING AND RELATED OCCUPATIONS. Also excluded are minimally skilled labouring occupations; these are located in Major Group 11: BASIC MANUAL OCCUPATIONS.

Occupations in this major group are classified into minor groups according to material worked on and machines and equipment used. Within minor groups, unit groups are distinguished from each other according to material worked on, machines and equipment used, and stage of process.

Occupations in this major group are classified into the following minor groups:

- 1001 MINERAL ORE PROCESSING OCCUPATIONS
- 1003 METAL, ELECTRICAL AND ELECTRONIC PRODUCTS  
PROCESSING AND FABRICATING OCCUPATIONS
- 1005 RUBBER, CHEMICAL AND PLASTIC PRODUCTS  
PROCESSING & FABRICATING OCCUPATIONS
- 1007 WOOD AND PAPER PRODUCTS PROCESSING AND  
FABRICATING OCCUPATIONS
- 1009 CLAY, GLASS AND STONE PROCESSING  
OCCUPATIONS
- 1011 HIDE, YARN AND TEXTILE PRODUCTS PROCESSING  
AND FABRICATING OCCUPATIONS
- 1013 FOOD, TOBACCO AND BEVERAGE PRODUCTS  
PROCESSING OCCUPATIONS
- 1015 INSPECTING, TESTING AND QUALITY CONTROL  
OCCUPATIONS (NON-TRADES)
- 1017 PACKAGING MACHINE OPERATORS
- 1099 OTHER PROCESSING OCCUPATIONS

## MINOR GROUP 1001 MINERAL ORE PROCESSING OCCUPATIONS

This minor group contains occupations concerned with tending and operating machinery to reduce mineral ores by crushing, grinding, washing and separating into forms suitable for smelting or other treatment by heat process, and collecting samples of ore from mine sites or conveyor belts for simple testing procedures. Excluded from this group are operators of such machinery from remote control booths; these occupations are located in Major Group 09: PLANT OPERATING AND RELATED OCCUPATIONS.

Occupations in this minor group are classified into the following unit groups:

- 1001-01 CRUSHING, GRINDING AND SCREENING OCCUPATIONS
- 1001-03 WASHING, MIXING, SEPARATING AND FILTERING OCCUPATIONS
- 1001-05 OTHER MINERAL ORE PROCESSING OCCUPATIONS
- 1001-07 MINERAL SAMPLING AND TESTING OCCUPATIONS

### 1001-01 CRUSHING, GRINDING AND SCREENING OCCUPATIONS

This unit group covers occupations concerned with operating and tending equipment which sizes minerals and ores by crushing and screening.

**Entry Requirements:** Year 9 in some cases, plus 3-24 months' experience.

**Activities:** Operating controls to start and stop conveyors and equipment in sequence or advising control room operator to do so; patrolling working area to check wear on equipment; removing blockages; maintaining safety standards; and cleaning working area.

#### Occupations:

- 1001-0101 Leading Hand, Primary Crusher
- 1001-0103 Crusher Attendant
- 1001-0105 Grinding Mill Operator
- 1001-0107 Screen Attendant

### 1001-03 WASHING, MIXING, SEPARATING AND FILTERING OCCUPATIONS

This unit group covers occupations concerned with operating and tending equipment which processes all forms of mineral ore at the first stage of refinement.

**Entry Requirements:** Year 9-10 in some cases, plus up to 6 months' experience.

**Activities:** Operating controls to regulate machines used in washing, separating, leaching, precipitating, filtering, extracting and combining mineral ores to remove waste material; and adding solvents to facilitate processing or separating mineral concentrate from ore or alluvial deposits by thickening, flotation, leaching, gravity separation, filtration, or magnetic or electrostatic separation.

#### Occupations:

- 1001-0301 Wash Plant Operator
- 1001-0303 Thickener Operator
- 1001-0305 Flotation Operator
- 1001-0307 Solutionist
- 1001-0309 Precipitator Attendant
- 1001-0311 Filter Operator (Mineral Ore Treating)
- 1001-0313 Magnetic Separator Attendant
- 1001-0315 Gravity Separator Attendant

- 1001-0317 Table Operator (Ore Treating)
- 1001-0319 Alluvial Separation Plant Operator
- 1001-0321 Dry Mill Separation Operator
- 1001-0323 Surface Hydraulic Fill Operator

### 1001-05 OTHER MINERAL ORE PROCESSING OCCUPATIONS

This unit group covers occupations not elsewhere classified concerned with mineral processing activities.

**Entry Requirements:** No formal requirements, but up to 1 year's experience is required.

**Activities:** Operating machines with rotating discs or drums to form pellets of iron concentrate and monitoring stacking of pellets; turning valves on gates to admit fluids; observing and controlling processes; replacing worn parts; and preparing reagent solution for use in process.

#### Occupations:

- 1001-0501 Pellet Drum/Disc Operator
- 1001-0503 Amalgamator Operator
- 1001-0505 Reagent Attendant
- 1001-0507 Clarifier Operator
- 1001-0509 Electrolytic Cell Attendant
- 1001-0599 Other Mineral Ore Processing Occupations, nec

### 1001-07 MINERAL SAMPLING AND TESTING OCCUPATIONS

This unit group covers occupations concerned with taking rock or shale samples for testing to determine ore grade.

**Entry Requirements:** Year 9-12 plus up to 2 years' experience.

**Activities:** Collecting samples from production faces, blast holes, railway cars, conveyor belts or processing machinery in underground or open cut mines; marking samples for identification; performing simple tests; and keeping records.

#### Occupations:

- 1001-0701 Mine Sampler
- 1001-0703 Coal Sampler
- 1001-0705 Coal Sample Tester
- 1001-0707 Sample Washer
- 1001-0709 Iron Pellet Tester

## MINOR GROUP 1003

### METAL, ELECTRICAL AND ELECTRONIC PRODUCTS PROCESSING & FABRICATING OCCUPATIONS

This minor group contains occupations concerned with operating machines used for rolling, shaping, and moulding hot metal stock; altering metal properties by subjecting to heat; welding and bending sheet or other metal; and assembling metal, electrical or electronic goods on a production line.

Occupations in this minor group are classified into the following unit groups:

- 1003-01 METAL ROLLING MILL OPERATORS
- 1003-03 METAL MOULDING AND EXTRUDING MACHINE OPERATORS
- 1003-05 METAL HEAT TREATING MACHINE OPERATORS
- 1003-07 OTHER MACHINE OPERATORS, METAL, ELECTRICAL AND ELECTRONIC PRODUCTS FABRICATING
- 1003-09 WELDING MACHINE OPERATORS (NON-TRADES)
- 1003-11 MANUAL PROCESS WORKERS, METAL AND RELATED PRODUCTS

#### 1003-01 METAL ROLLING MILL OPERATORS

This unit group covers occupations concerned with operating and tending rolling mills which shape, reduce the cross-sectional area and elongate metal pieces by passing them between rolls which exert a compressive force.

**Entry Requirements:** No formal requirements, but up to 2 years' experience required.

**Activities:** Operating hand or automatic controls; determining sequence and schedules; observing operations; operating shears to cut metal to length; making adjustments to machine as required; and keeping records.

**Occupations:**

- 1003-0101 Rolling Mill Operator (Ferrous; Non-Ferrous Metals)
- 1003-0103 Rolling Mill Assistant

#### 1003-03 METAL MOULDING AND EXTRUDING MACHINE OPERATORS

This unit group covers occupations concerned with operating machines to produce sand moulds for the production of metal castings, to pour molten metal into moulds and to shape metal into wire, pipe, tube or other sections.

**Entry Requirements:** No formal requirements, but 12 months' training/experience is required.

**Activities:** Using hand tools or machines to form correct contours and shapes; setting up and preheating casting equipment; examining moulds to ensure correct lubrication; observing moulds for overflow; operating hand or automatic controls to manoeuvre metal into extruding machine; attaching correct dies and regulating rate of extrusion; and keeping records.

**Occupations:**

- 1003-0301 Casting Machine Operator
- 1003-0303 Ladleman/woman (Ferrous; Non-Ferrous Metals)
- 1003-0305 Machine Moulder
- 1003-0307 Extrusion Press Operator, Metal
- 1003-0309 Wire Drawer
- 1003-0311 Sheathing Extruder

#### 1003-05 METAL HEAT TREATING MACHINE OPERATORS

This unit group covers occupations concerned with altering the physical properties of metals or metal objects by heating,

cooling or chemically treating to relieve stresses, restore ductility, reduce brittleness, harden throughout or harden outer surfaces.

**Entry Requirements:** In some cases a para-professional certificate, but at least 12 months' experience.

**Activities:** Manipulating controls to operate furnaces and quenching equipment; loading and unloading furnaces; preparing particular chemical mixes; and maintaining production records of materials treated.

**Occupations:**

- 1003-0501 Heat Treatment Operator, General
- 1003-0503 Annealer
- 1003-0505 Hardener
- 1003-0507 Temperer
- 1003-0509 Case Hardener
- 1003-0511 Soaking Pit Furnace Operator

#### 1003-07 OTHER MACHINE OPERATORS, METAL, ELECTRICAL AND ELECTRONIC PRODUCTS FABRICATING

This unit group covers occupations not elsewhere classified concerned with the fabrication of metal components and products using a variety of machines and processes including electroplating, metal spraying, sheet metal shaping and assembling of finished goods.

**Entry Requirements:** Year 9 plus up to 18 months' experience.

**Activities:** Placing metal components in racks and immersing them in plating solution; setting equipment to spray molten metal or ceramics; adjusting gauges and flow of materials; operating shaping, forming and cutting machines; checking dimensions; and operating preset or single purpose machines to shape, form, fabricate or assemble items made of metals or electrical components.

**Occupations:**

- 1003-0701 Electroplater, Second Class
- 1003-0703 Metal Sprayer
- 1003-0705 Sheet Metal Worker, Second Class (Manufacturing)
- 1003-0707 Sheet Metal Worker, Second Class (Installation)
- 1003-0709 Metal Shaping and Forming Machine Operator
- 1003-0711 Process Worker, Machine Operation (Metal)

1003-0713 Machine Operator, Process Work (Electrical and Electronic Equipment)

#### 1003-09 WELDING MACHINE OPERATORS (NON-TRADES)

This unit group covers occupations concerned with the operation of machines to weld and bond components or surfaces in the fabrication and repair of metal products.

**Entry Requirements:** Year 9-10 plus up to 18 months' experience.

**Activities:** Preparing surface of workpieces; attaching electrodes and cables; regulating voltage or gas mixtures; guiding electrode or flame to produce required product; inspecting product for flaws; and finishing edges and joins.

##### Occupations:

1003-0901 Gas-Shielded-Arc Welding Machine Operator  
1003-0903 Electric-Arc Welder  
1003-0905 Oxy-acetylene Welder/Cutter  
1003-0907 Brazier  
1003-0909 Solderer  
1003-0999 Welding Machine Operators (Non-Trades),  
nec

#### 1003-11 MANUAL PROCESS WORKERS, METAL AND RELATED PRODUCTS

This unit group covers occupations concerned with assisting tradespersons engaged in metal and metal processing activities; and assembly line and process work including assembling electrical appliances.

**Entry Requirements:** No formal requirements, however up to 1 year's experience may be required for some trades assistants.

**Activities:** Locating, mounting and assembling components of metal products including jewellery, hollow ware, electrical appliances and motors; loading machine with stock as required; setting up guides and other preset gauges; inspecting products; and keeping records.

##### Occupations:

1003-1101 Trades Assistant, Metal and Metal Products  
1003-1103 Production Worker, Metal Processing  
1003-1105 Production Worker, Metal Finishing  
1003-1107 Process Worker, Assembly (Metal)  
1003-1109 Process Worker, Electrical and Electronic Equipment  
1003-1111 Hollow-ware Assembler  
1003-1113 Process Worker, Jewellery Assembly

### MINOR GROUP 1005

#### RUBBER, CHEMICAL AND PLASTIC PRODUCTS PROCESSING & FABRICATING OCCUPATIONS

This minor group contains occupations concerned with tending and operating machinery in the manufacture and refinement of goods made of rubber, plastics and chemicals (including explosives, industrial gases and pharmaceuticals) and fabricating and assembling items made of these materials on production lines.

Occupations in this minor group are classified into the following unit groups:

- 1005-01 MACHINE OPERATORS, PLASTICS PRODUCTS
- 1005-03 MANUAL PROCESS WORKERS, PLASTICS PRODUCTS
- 1005-05 TYRE PRODUCTION OCCUPATIONS
- 1005-07 RUBBER PRODUCTION OCCUPATIONS (EXCEPT TYRES)
- 1005-09 MACHINE OPERATORS, PHARMACEUTICALS AND TOILETRIES PRODUCTS
- 1005-11 PROCESS WORKERS AND ASSISTANTS, PHARMACEUTICALS AND TOILETRIES PRODUCTS
- 1005-13 MACHINE OPERATORS, EXPLOSIVES PRODUCTION
- 1005-15 MANUAL PROCESS WORKERS, EXPLOSIVES PRODUCTION
- 1005-17 PROCESS WORKERS, INDUSTRIAL AND MEDICAL GAS PRODUCTION
- 1005-19 PROCESS WORKERS, PHOTOGRAPHIC PRODUCTS
- 1005-21 MACHINE OPERATORS, CHEMICAL PRODUCTION
- 1005-23 PRODUCTION ASSISTANTS, CHEMICAL AND RELATED PRODUCTS

#### 1005-01 MACHINE OPERATORS, PLASTIC PRODUCTS

This unit group covers occupations concerned with the operation of machines used in the fabrication, assembly and repair of plastic products.

**Entry Requirements:** Year 9-10 plus up to 1 year's experience.

**Activities:** Measuring and mixing ingredients using machines or manually; starting machines and monitoring instruments; adjusting controls to regulate processes in the production of a wide range of plastic products or the various stages of plastic fabrication; checking output; and reporting malfunctions to machine setters.

**Occupations:**

1005-0101	Plastics Blending Machine Operator
1005-0103	Extruding Machine Operator (Plastics)
1005-0105	Injection/Compression/Transfer Moulding Machine Operator
1005-0107	Blow Moulding Machine Operator
1005-0109	Cellular Plastics Machine Operator
1005-0111	Thermoforming Machine Operator
1005-0113	Rotational Moulding Machine Operator
1005-0115	Plastics Sheet Press Operator

**1005-03 MANUAL PROCESS WORKERS, PLASTICS PRODUCTS**

This unit group covers occupations concerned with the operation of simple machine and manual processes in the fabrication, assembly and repair of plastic products.

**Entry Requirements:** Year 9 plus up to 3 months' experience.

**Activities:** Moving materials from store rooms to worksite; maintaining and spraying moulds; building up fibreglass and resin layers on moulds; and cutting foam products.

**Occupations:**

1005-0301	Powder Hand (Plastics)
1005-0303	Cellular Plastics Cutter
1005-0305	Mould Hand (Plastics)
1005-0307	Gun Hand (Plastics)
1005-0309	Hand Laminator
1005-0311	Plastics Sheet Fabricator
1005-0399	Plastic Fabricating Occupations, nec

**1005-05 TYRE PRODUCTION OCCUPATIONS**

This unit group covers occupations concerned with the production of tyres.

**Entry Requirements:** Year 9-11 plus up to 1 year's experience.

**Activities:** Inspecting tyre casings; wrapping rubber sheets onto a rotating drum to build tyre; positioning tyre heads; and inspecting finished product.

**Occupations:**

1005-0501	Tyre Builder
1005-0503	Tyre Retreader
1005-0599	Tyre Production Occupations, nec

**1005-07 RUBBER PRODUCTION OCCUPATIONS (EXCEPT TYRES)**

This unit group covers occupations concerned with using a variety of machines and hand operations in the production of rubber products (except tyres).

**Entry Requirements:** Year 9-10 plus up to 1 year's experience.

**Activities:** Tending machines used to reinforce rubber hose; building printers' rolls from rubber ply; and affixing rubber sheeting to the interior of a variety of cylindrical products.

**Occupations:**

1005-0701	Knitting Machine Operator, Rubber Products
1005-0703	Roll Builder
1005-0705	Roller Grinder Operator
1005-0707	Tank Liner
1005-0799	Rubber Production Occupations (Except Tyres), nec

**1005-09 MACHINE OPERATORS, PHARMACEUTICALS AND TOILETRIES PRODUCTS**

This unit group covers occupations concerned with the operation of machines in the production of pharmaceuticals and toiletries.

**Entry Requirements:** Year 10 plus 3 years' experience, and in some cases, a basic vocational para-professional certificate in an appropriate area.

**Activities:** Reading production schedules; weighing and measuring ingredients; adjusting valves to ensure correct mixtures and rate of process in water stills, mixers, clarifiers, filtering units, autoclaves, fermenting tanks, and granulation and tableting machines to produce pharmaceuticals and toiletry products, ampoules and sterile products; ensuring cleanliness of machines; and keeping records.

**Occupations:**

1005-0901	Pharmaceutical Operator
1005-0903	Sterile Products Processer
1005-0905	Fermenter, Antibiotics
1005-0907	Autoclave Operator (Chemicals)
1005-0909	Granulator Machine Operator
1005-0911	Tablet Making Machine Operator
1005-0913	Tablet Coating Machine Operator
1005-0915	Ampoule Filler
1005-0917	Make-up Plant Operator (Chemicals)

**1005-11 PROCESS WORKERS AND ASSISTANTS, PHARMACEUTICALS AND TOILETRIES PRODUCTS**

This unit group covers occupations concerned with assisting machinery operators and carrying out a variety of basic processing procedures in the production of pharmaceuticals and toiletries.

**Entry Requirements:** Year 10 plus up to 6 months' experience.

**Activities:** Tending equipment to mould or compress prepared ingredients; winding suture material onto reels; and assisting other workers as directed in the production of pharmaceuticals and toiletries.

**Occupations:**

1005-1101	Soap Maker
1005-1103	Toiletries Moulder and Compressor
1005-1105	Suture Maker
1005-1107	Assistant Plant Operator, Pharmaceuticals and Toiletries Products
1005-1199	Process Workers and Assistants, Pharmaceuticals and Toiletries Products, nec

**1005-13 MACHINE OPERATORS, EXPLOSIVES PRODUCTION**

This unit group covers occupations concerned with operating machinery in the production of explosives.

**Entry Requirements:** Year 10 plus 3 years' experience.

**Activities:** Computing quantities of ingredients; operating valves, pumps and other controls to mix, dissolve, heat and otherwise process chemicals to produce explosive substances such as nitrocellulose, gelignite and various types of propellant powders; loading and unloading bobbins from machines for the making of fuses; and measuring and examining bullets to ensure conformity with specifications and adjusting machine accordingly.

**Occupations:**

1005-1301	Mixer Operator, Explosives
1005-1303	Powder Blender, Explosives
1005-1305	Nitrocellulose Maker
1005-1307	Fuse Maker
1005-1309	Bullet Maker
1005-1311	Assistant Plant Operator, Explosives Production

**1005-15 MANUAL PROCESS WORKERS, EXPLOSIVES PRODUCTION**

This unit group covers basic processing occupations concerned with the production of explosives and ammunition.

**Entry Requirements:** Year 10.

**Activities:** Assembling, fabricating, inspecting, testing, maintaining, loading and storing ammunition.

**Occupations:**

- 1005-1501 Munitions Maker
- 1005-1503 Munitions Hand
- 1005-1505 Munitions Handler

**1005-17 PROCESS WORKERS, INDUSTRIAL AND MEDICAL GAS PRODUCTION**

This unit group covers occupations concerned with manufacturing and storing gases used in industrial and medical applications.

**Entry Requirements:** Year 10 in some cases.

**Activities:** Examining cylinders for defects; replacing valves using wrenches; adjusting valves and observing gauges to ensure correct volume; attaching labels; testing gas; and cleaning containers and equipment.

**Occupations:**

- 1005-1701 Compressed Gas Plant Worker
- 1005-1703 Pressurised Container Filler

**1005-19 PROCESS WORKERS, PHOTOGRAPHIC PRODUCTS**

This unit group covers occupations concerned with carrying out a variety of processes or tending automatic machinery to produce photographs and similar items.

**Entry Requirements:** Year 10 plus up to 6 months' experience.

**Activities:** Winding and unwinding film onto spools; mixing chemicals and solutions for immersion and treatment of film; starting and stopping machines to regulate development times; and cleaning equipment.

**Occupations:**

- 1005-1901 Photographic Developer and Printer
- 1005-1903 Film Spooler
- 1005-1905 Laboratory Assistant, Photographic Processing

**1005-21 MACHINE OPERATORS, CHEMICAL PRODUCTION**

This unit group covers occupations concerned with operating a variety of machines used to process chemicals, in batch or continuous mode, in order to produce specified industrial or

consumer products.

**Entry Requirements:** Year 10 plus 3 years' experience.

**Activities:** Reading schedules to determine sequence and type of process specified; measuring and loading ingredients into mixers, blenders, compounders, kettles, filters and distillers and regulating action of machines using valves, pumps, gauges and other controls; maintaining production records and carrying out testing procedures at various stages of processing; cleaning machinery; and directing other workers in carrying out portions of these procedures.

**Occupations:**

- 1005-2101 Batch Still Operator (Chemicals)
- 1005-2103 Calender Operator
- 1005-2105 Chemical Process Operator, Batching
- 1005-2107 Chemical Process Unit Operator
- 1005-2109 Chlorination Plant Operator (Chemicals)
- 1005-2111 Compounder (Chemicals)
- 1005-2113 Kettle Operator (Chemicals)
- 1005-2115 Mixer (Chemicals)
- 1005-2117 Filter Press Operator (Chemicals)
- 1005-2119 Pilot Plant Operator (Chemicals)
- 1005-2121 Solutions Plant Operator
- 1005-2123 Vacuum Pan Operator (Chemicals)
- 1005-2125 Distillation Operator (Chemicals)
- 1005-2127 Recovery Plant Operator
- 1005-2129 Acid Plant Operator
- 1005-2199 Machine Operators, Chemical Production, nec

**1005-23 PRODUCTION ASSISTANTS, CHEMICALS AND RELATED PRODUCTS**

This unit group covers occupations concerned with assisting other workers in the production processing and testing of a range of chemical products, and with being trained to operate complex machinery.

**Entry Requirements:** Year 10 plus, in some cases 6 months' experience.

**Activities:** Assisting in and learning the duties carried out by occupations in Unit Group 1005-21: MACHINE OPERATORS, CHEMICAL PRODUCTION.

**Occupations:**

- 1005-2301 Production Assistant, Chemicals and Related Products

**MINOR GROUP 1007****WOOD AND PAPER PRODUCTS PROCESSING AND FABRICATING OCCUPATIONS**

This minor group contains occupations concerned with the sawing, shaping and processing of raw timber; the making of pulp and paper products, plywood, veneers, hardboard and particleboard; shaping timber to set profiles using saws and other machines; and the assembling of prefabricated products made of wood.

Occupations in this minor group are classified into the following unit groups:

- 1007-01 WOODWORKING MACHINE OPERATORS
- 1007-03 PLYWOOD AND VENEER MANUFACTURING OCCUPATIONS
- 1007-05 PARTICLEBOARD AND HARDBOARD MANUFACTURING OCCUPATIONS
- 1007-07 MANUAL PROCESS WORKERS, WOOD PRODUCTS
- 1007-09 PAPER MAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS

**1007-01 WOODWORKING MACHINE OPERATORS**

This unit group covers occupations concerned with operating a variety of machines to cut logs into pieces of predetermined

dimensions; reducing logs to chips; operating rotary lathes, sanding machines, saws and planes.

**Entry Requirements:** Year 10 plus up to 1 year's experience.

**Activities:** Installing and changing appropriate knives, saws, sanding belts and adjusting machines to give required thickness and profile; starting machines and guiding timber stock during shaping process; testing profiles using preset gauges; operating hoists, conveyor belts, forklifts and other equipment to move and position logs and cut pieces; maintaining records; and judging timber quality.

**Occupations:**

1007-0101	Debarker Operator
1007-0103	Drop-Sorter Operator
1007-0105	Dockerman/woman
1007-0107	Edgerman/woman
1007-0109	Stock Cutter (Timber Yard)
1007-0111	Chipper Operator
1007-0113	Leverman/woman
1007-0115	Log Preparer
1007-0117	Sanding Machine Operator
1007-0119	Trim Saw Operator
1007-0121	Sheet Thickness Tolerance Machine Operator
1007-0123	Moulder Operator, Sawmill

**1007-03 PLYWOOD AND VENEER MANUFACTURING OCCUPATIONS**

This unit group covers occupations concerned with operating machines and equipment to produce plywood panels and veneer sheets.

**Entry Requirements:** Up to 1 year's related work experience.

**Activities:** Operating lathe to slice or peel veneer sheets; stacking cores and sheets in correct order; turning valves on glue spreader, adjusting pressure and tolerance guides; observing gauges and rate of progress; examining product for conformity with specifications and repairing defects; activating cutting mechanism; unloading machines; and keeping records.

**Occupations:**

1007-0301	Veneer Lathe/Slicer Operator
1007-0303	Centre Layer
1007-0305	Veneer Clipper
1007-0307	Plywood and Veneer Repairer
1007-0309	Veneer Splicing Machine Operator
1007-0311	Cross Feed Splicer Operator
1007-0313	Glue Mixer
1007-0315	Press Operator (Wood Processing)
1007-0317	In-feed Operator
1007-0319	Veneer Guillotine Operator

**1007-05 PARTICLEBOARD AND HARDBOARD MANUFACTURING OCCUPATIONS**

This unit group covers occupations concerned with setting up, operating and maintaining the line system and equipment to manufacture hardboard and particleboard.

**Entry Requirements:** Year 10 and up to 1 year's related work experience.

**Activities:** Setting up, starting, adjusting and observing presses and glue mixing, chip blending and molten spread equipment to manufacture particleboard sheets; operating heat presses, treatment ovens, humidifiers and other equipment to reduce wood chips to fibre and press mats into hardboard sheets; opening valves and starting pumps to treat products with oils; and cleaning equipment.

**Occupations:**

1007-0501	Press Line Operator, Particleboard Manufacture
1007-0503	Forming Line Operator, Particleboard Manufacture
1007-0505	Forming Line Operator, Hardboard Manufacture
1007-0507	Press Operator, Hardboard Manufacture
1007-0509	Oil Tempering Machine Operator
1007-0511	Wood Fibre Refining Machine Operator
1007-0599	Other Particleboard and Hardboard Manufacturing Occupations

**1007-07 MANUAL PROCESS WORKERS, WOOD PRODUCTS**

This unit group covers occupations concerned with assembling wood products into finished and part-finished articles.

**Entry Requirements:** Up to 6 months' experience.

**Activities:** Fixing together prepared component parts for production of joinery products; partly or completely assembling machine dressed and marked wooden parts into furniture or frames; and using hand and power tools for glueing, stapling or nailing.

**Occupations:**

1007-0701	Joiner Assembler, A Grade
1007-0703	Joiner Assembler, B Grade
1007-0705	Furniture Assembler, First Class
1007-0707	Furniture Assembler, Second Class
1007-0709	Trade Assistant, Wood Products

**1007-09 PAPER MAKING AND PAPER PRODUCT FABRICATING OCCUPATIONS**

This unit group covers occupations primarily concerned with operating equipment that makes paper, paperboard and sheet pulp from pulp stock.

**Entry Requirements:** Year 10 and up to 2 years' experience.

**Activities:** Operating wet end of paper machine to make paper or sheet pulp from pulp stock; operating wet end of paperboard machine to make paperboard; operating dryer, calender and winding sections of paper or paperboard machines; operating machine to glaze or impregnate paper with size or coating mixtures or to impart specified finish to surface of paper; operating winder to make rolls for shipments; tending cutter and layboy that cuts rolls of paper into sheets and stacks them; testing samples of each run of paper produced to control quality and uniformity; tending steam-heated hydraulic press that compresses wood pulp to form insulation board; and setting up, operating and adjusting machines with fabricating and assembling paper products.

**Occupations:**

1007-0901	Pulp Refiner Operator (Papermaking)
1007-0903	Paper Machine Operator
1007-0905	Dryer Operator, Paper Machine
1007-0907	Paperboard Machine Operator
1007-0909	Coating Machine Operator (Papermaking)
1007-0911	Supercalender Operator
1007-0913	Winder Operator
1007-0915	Rewinder Operator
1007-0917	Cutter Operator (Paper)
1007-0919	Paper Machine Hand
1007-0921	Press Operator, Insulation Board
1007-0923	Paper Product Fabricating and Assembling Machine Operator

**MINOR GROUP 1009**

**CLAY, GLASS AND STONE PROCESSING OCCUPATIONS**

This minor group contains occupations concerned with tending automatic or semi-automatic machines

which weigh, mix, melt and fuse ingredients in the making of glass and glass products; and operating machinery used in forming clay, stone, concrete, masonry and paving products.

Occupations in this minor group are classified into the following unit groups:

#### 1009-01 GLASS PROCESSING AND FABRICATING OCCUPATIONS

#### 1009-03 CLAY AND STONE PROCESSING OCCUPATIONS

##### 1009-01 GLASS PROCESSING AND FABRICATING OCCUPATIONS

This unit group covers occupations concerned with operating machines in the production of glass products.

**Entry Requirements:** Year 9-10 and up to 18 months' experience.

**Activities:** Reading specifications and weighing ingredients; transferring ingredients to machine and starting mixers; adjusting heat controls to regulate melting and blending; adjusting moulds; inspecting products; and cleaning equipment.

##### Occupations:

1009-0101	Glass Melt Operator
1009-0103	Glassware Maker
1009-0105	Glassware Process Operator
1009-0107	Glassware Process Assistant
1009-0199	Glass Processing and Fabricating Occupations, nec

##### 1009-03 CLAY AND STONE PROCESSING OCCUPATIONS

This unit group covers occupations concerned with operating machinery used in forming clay, stone, concrete, masonry and paving products.

**Entry Requirements:** Year 10 and up to 2 years' experience.

**Activities:** Operating forming machines for structural concrete masonry and paving products; operating and lubricating large plant in the production of lime, cement or clinker; operating machines to make and finish fibre-cement pipes and a variety of moulded concrete products; operating automatic machines that cut extruded clay and press tempered clay to make bricks and tiles; operating lathes to cut clayware to manufacture items such as insulators and abrasive wheels, and a variety of lathes, drills and boring mills to shape asbestos-cement pipe and fittings; and operating machines to make plaster products.

##### Occupations:

1009-0301	Batcher, Premix Concrete
1009-0303	Moulder/Machine Operator, Fibre-Cement
1009-0305	Machine Operator, Cement Pipe
1009-0307	Concrete Pre-cast Moulder
1009-0309	Extruder Operator, Clay Products
1009-0311	Press Operator, Clay Products
1009-0313	Machine Operator, Stone
1009-0315	Cement Plant Operator
1009-0317	Plasterboard Maker
1009-0319	Insulation Maker
1009-0321	Clay Processing and Forming Machine Tender
1009-0323	Process Worker, Fibre-Cement
1009-0325	Porcelain Turner
1009-0399	Clay and Stone Processing Occupations, nec

### MINOR GROUP 1011

### HIDE, YARN AND TEXTILE PRODUCTS PROCESSING AND FABRICATING OCCUPATIONS

This minor group contains occupations concerned with converting raw material and synthetic fibres into finished yarn; operating machines to convert yarn into fabric, and hides and skins into leather and leather products; and operating machines on process lines for fabricating, assembling and repairing garments and shoes.

Occupations in this minor group are classified into the following unit groups:

#### 1011-01 YARN PROCESSING OCCUPATIONS

#### 1011-03 HIDE AND SKIN PROCESSING OCCUPATIONS

#### 1011-05 FABRIC PRODUCTION MACHINE OPERATORS

#### 1011-07 GARMENT MAKING OCCUPATIONS

#### 1011-09 SHOEMAKING PRODUCTION OCCUPATIONS

##### 1011-01 YARN PROCESSING OCCUPATIONS

This unit group covers occupations concerned with removing foreign matter from raw fibre, operating machines that open, clean and align fibres; and comb draw and twist fibres into yarn.

**Entry Requirements:** Year 9-10 and up to 3 years' experience.

**Activities:** Blending specified amounts of fibre and feeding into machines; operating controls to regulate temperature, speed of process and tension of fibre; joining broken ends; removing and replacing full spools; and cleaning machine.

##### Occupations:

1011-0101	Wool Scouring Operator
1011-0103	Carding Machine Operator
1011-0105	Spinning Machine Operator
1011-0107	Cotton Ginner

##### 1011-03 HIDE AND SKIN PROCESSING OCCUPATIONS

This unit group covers occupations concerned with converting animal skins into leather.

**Entry Requirements:** Year 9-10 and up to 12 months' experience.

**Activities:** Operating machines to flesh and soak hides in specified chemicals; controlling drying and dyeing processes; stamping patterns on leather; and cleaning work area.

**Occupations:**

- 1011-0301 Tannery Operator
- 1011-0303 Leather Finishing Operator

### 1011-05 FABRIC PRODUCTION MACHINE OPERATORS

This unit group covers occupations concerned with operating machines and related activities associated with the production of fabric.

**Entry Requirements:** Year 9 and up to 12 months' experience.

**Activities:** Loading yarns and semi-finished fabric onto machine; observing operation and making adjustments to ensure correct process; repairing or retieing broken and loose ends and removing obstructions; mixing chemicals and turning valves to regulate dyeing of fabric; operating machines to impart a particular finish to fabric; cleaning machines and work area; and keeping records.

**Occupations:**

- 1011-0501 Warp Sizer
- 1011-0503 Warper
- 1011-0505 Fabric Weaver
- 1011-0507 Carpet Weaver
- 1011-0509 Drawer-in
- 1011-0511 Tier-in
- 1011-0513 Knitting Machine Operator
- 1011-0515 Dyeing, Bleaching, Finishing Machine Operator
- 1011-0517 Needle Loom Operator
- 1011-0519 Tufting Machine Operator
- 1011-0521 Bonding Machine Operator
- 1011-0523 Rope Making Machine Operator

### 1011-07 GARMENT MAKING OCCUPATIONS

This unit group covers occupations concerned with assisting skilled garment makers, and carrying out simple less skilled duties, in the fabricating, assembling and repairing of garments made of textiles and furs.

**Entry Requirements:** Year 9 and up to 6 months' training and experience.

**Activities:** Selecting material according to specification; cutting parts, sewing them together and mending defects using hand tools and/or machines; marking areas for adjustment or finishing; adjusting machine to ensure correct tension and observing operation to detect malfunction; and lubricating and cleaning machine.

**Occupations:**

- 1011-0701 Sewing Machine Operator (Textiles)
- 1011-0703 Mender, Textile Products
- 1011-0705 Cutter Hand, Furriers

**Related Occupations:**

- 0713-15 Tailors (Unit Group) 0713-17 Garment Makers, Except Tailors (Unit Group) 0715-21 Furriers (Unit Group)

### 1011-09 SHOEMAKING PRODUCTION OCCUPATIONS

This unit group covers occupations concerned with carrying out predetermined tasks or operating machines in the manufacture of shoes on a production line.

**Entry Requirements:** No formal requirements, but up to 12 months' training.

**Activities:** Cutting leather and linings; and trimming, sewing, and finishing operations on shoes.

**Occupations:**

- 1011-0901 Process Worker, Shoe Cutting
- 1011-0903 Process Worker, Shoemaking
- 1011-0905 Process Worker, Shoe Finishing
- 1011-0907 Process Worker, Shoe Machining
- 1011-0999 Shoemaking Production Occupations, nec

## MINOR GROUP 1013 FOOD, TOBACCO AND BEVERAGE PRODUCTS PROCESSING OCCUPATIONS

This minor group contains occupations concerned with operating machines and carrying out manual tasks in relation to the processing, distillation, preservation, presentation and sorting of foodstuffs, tobacco products and beverages.

Occupations in this minor group are classified into the following unit groups:

- 1013-01 BEVERAGE PROCESSING OCCUPATIONS (NON-DAIRY)
- 1013-03 DAIRY PRODUCTS PROCESSING MACHINE OPERATORS
- 1013-05 MEAT PROCESSING MACHINE OPERATORS
- 1013-07 FRUIT AND VEGETABLE MACHINE OPERATORS
- 1013-09 CEREALS, FIELD CROPS AND SUGAR PROCESSING MACHINE OPERATORS
- 1013-11 OTHER FOOD AND RELATED PRODUCTS MACHINE OPERATORS
- 1013-13 BASIC PROCESSING OCCUPATIONS, MEAT PRODUCTS
- 1013-15 OTHER BASIC PROCESSING OCCUPATIONS, FOOD PRODUCTS

### 1013-01 BEVERAGE PROCESSING OCCUPATIONS (NON-DAIRY)

This unit group covers occupations concerned with operating and monitoring a variety of plant and processes that produce alcoholic beverages, soft drinks and fruit and vegetable juices.

**Entry Requirements:** Year 10 and 1 year's experience with a training period of at least 3 months.

**Activities:** Operating storage, transfer and processing equipment and machines; monitoring processes using gauges and/or sight-glasses; taking and testing samples and making adjustments as required; record keeping; cleaning and maintenance; and materials handling.

**Occupations:**

- 1013-0101 Distiller (Beverages)
- 1013-0103 Brewhouse Operator
- 1013-0105 Brewery Cellar Operator
- 1013-0107 Cellarhand, Winery
- 1013-0109 Soft Drink Mixer
- 1013-0111 Fruit and Vegetable Juicer Operator
- 1013-0199 Beverage Processing Occupations (Non-Dairy), nec

### 1013-03 DAIRY PRODUCTS PROCESSING MACHINE OPERATORS

This unit group covers occupations concerned with operating and monitoring plant and processes that produce dairy products.

**Entry Requirements:** Year 9-10 and either a training period of at least 1 year with a minimum of 1 year's experience or an equivalent basic vocational certificate of 1-3 years.

**Activities:** Operating transfer and processing equipment and machines; monitoring processes using gauges, sampling and testing produce; making mechanical adjustments as required; and cleaning equipment and machines.

**Occupations:**

- 1013-0301 Milk Treater
- 1013-0303 Evaporator/Spray Dryer Operator
- 1013-0305 Ice Cream Maker

### 1013-05 MEAT PROCESSING MACHINE OPERATORS

This unit group covers occupations concerned with using processing meat products machinery and equipment for packaging or further processing.

**Entry Requirements:** Year 9-10, 1-6 months' training and 6 months' experience.

**Activities:** Operating and monitoring equipment to produce smallgoods and casings; defeathering poultry carcasses; processing and cooking fish; loading and unloading trolleys; pushing trolleys; and cleaning and sanitising work area and equipment.

**Occupations:**

- 1013-0501 Smallgoods Processing Equipment Operator
- 1013-0503 Defeatherer/Eviscerator Operator
- 1013-0505 Poultry Saws Operator
- 1013-0507 Casings Worker
- 1013-0509 Fish Cooker
- 1013-0511 Fish Plant Operator
- 1013-0513 Meat By-Products Machine Operator

### 1013-07 FRUIT AND VEGETABLE MACHINE OPERATORS

This unit group covers occupations concerned with operating machines that process fruit and vegetables.

**Entry Requirements:** Year 10, 2 months' training and 1 year's experience.

**Activities:** Operating processing machines according to pre-set specifications; monitoring the quality of ingredients and produce and making adjustments as required; keeping production records; and cleaning and sanitising work area and equipment.

**Occupations:**

- 1013-0701 Fruit and Vegetable Machinery Operator
- 1013-0703 Jam and Sauce Cook

### 1013-09 CEREALS, FIELD CROPS AND SUGAR PROCESSING MACHINE OPERATORS

This unit group covers machinery and equipment operators concerned with processing cereals, sugar, tobacco and other field crops.

**Entry Requirements:** Year 10, 1-12 months' training and 1 year's experience.

**Activities:** Checking cleanliness and proper functioning of machines; operating machines according to predetermined specifications; monitoring processes and testing samples and making adjustments as required; maintaining production records; and cleaning and sanitising work area.

**Occupations:**

- 1013-0901 Cereal Milling Machine Operator
- 1013-0903 Stockfeed Milling Machine Operator
- 1013-0905 Oilseed Processing Operator
- 1013-0907 Sugar Boiler
- 1013-0909 Sugar Processing Machine Operator
- 1013-0911 Maltster
- 1013-0913 Breakfast Cereal Maker
- 1013-0915 Machine Attendant, Tobacco Processing and Tobacco Products Manufacturing
- 1013-0917 Technical Operator, Tobacco Products Manufacturing
- 1013-0999 Cereals, Field Crops and Sugar Processing Machine Operators, nec

### 1013-11 OTHER FOOD AND RELATED PRODUCTS MACHINE OPERATORS

This unit group covers machine operators concerned with processing, canning and packaging food and related products.

**Entry Requirements:** Year 10, up to 1 year's training and 1 year's experience.

**Activities:** Checking cleanliness and operation of machines before production run; loading specified quantities of food and related materials into machines; starting materials feeding equipment; operating machines and monitoring production run; and taking samples for quality tests and making adjustments if necessary.

**Occupations:**

- 1013-1101 Margarine Maker
- 1013-1103 Foods Extruder Operator
- 1013-1105 Retort Operator
- 1013-1107 Syrup Maker
- 1013-1109 Frozen Foods Operator
- 1013-1111 Can Filler and Closer Operator
- 1013-1113 Food Packaging Machine Operator
- 1013-1199 Food Processing Machine Operators, nec

### 1013-13 BASIC PROCESSING OCCUPATIONS, MEAT PRODUCTS

This unit group covers occupations concerned with basic processing duties on meat products for cooking, packaging or further processing.

**Entry Requirements:** No formal requirements, with 2-6 weeks' training (Fish Filleters also require 1 year's experience).

**Activities:** Skinning, bleeding, gutting, boning and cleaning livestock carcasses and fish using hand knives or powered tools; slaughtering animals; packaging meat; and cleaning and sanitising equipment and work area.

**Occupations:**

- 1013-1301 Meatworks Labourer, Knife
- 1013-1303 Meat Cutter
- 1013-1305 Meat Boner
- 1013-1307 Poultry Boner
- 1013-1309 Poultry Processing Worker
- 1013-1311 Fish Filleter
- 1013-1313 Fish Process Worker

### 1013-15 OTHER BASIC PROCESSING OCCUPATIONS, FOOD PRODUCTS

This unit group covers occupations not elsewhere classified concerned with carrying out a variety of food processing activities connected with such products as fruit and vegetables, bread and other bakery products, dairy produce and eggs.

**Entry Requirements:** No formal requirements, but up to 4 months' training.

**Activities:** Carrying out general support duties in a food processing plant such as cleaning equipment, carrying and stacking trays and other containers; operating valves, pumps and other equipment as directed; and tending conveyor systems and grading products.

#### Occupations:

1013-1501	Fruit and Vegetable Processer
1013-1503	Bread Room Hand
1013-1505	Biscuit Processer
1013-1507	Dairy Factory Worker
1013-1509	Egg Process Worker

## MINOR GROUP 1015 INSPECTING, TESTING AND QUALITY CONTROL OCCUPATIONS (NON-TRADES)

This minor group contains occupations concerned with carrying out standardised tests on products to ensure they conform with specifications.

Occupations in this minor group are classified into the following unit groups:

### 1015-01 INSPECTING, TESTING AND QUALITY CONTROL OCCUPATIONS (NON-TRADES)

#### 1015-01 INSPECTING, TESTING AND QUALITY CONTROL OCCUPATIONS (NON-TRADES)

This unit group covers occupations concerned with inspecting and testing the quality and functioning of items and products to ensure they conform with standard specifications.

**Entry Requirements:** No formal requirements; some on-the-job training.

**Activities:** Random or systematic product sampling for testing, inspecting and comparing against standard specifications; marking and separating defective products; making minor repairs in some cases and keeping records; advising production line operators; and rectifying production faults.

#### Occupations:

1015-0101	Process Worker, Testing and Examining (Metal)
1015-0103	Quality Control Inspector (Metal Products)
1015-0105	Automobile Inspector
1015-0107	Process Worker, Testing (Electrical and Electronic Equipment)

1015-0109	Tyre Finisher/Examiner
1015-0111	Examiner, Rubber Products
1015-0113	Assistant, Inspecting and Testing (Chemicals)
1015-0115	Examiner, Plastics Products
1015-0117	Timber Grader
1015-0119	Machine Stress Grader Operator
1015-0121	Pulp Tester (Papermaking)
1015-0123	Paper Tester
1015-0125	Glassware Verifier
1015-0127	Tester, Clay and Stone Products
1015-0129	Quality Control Inspector, Apparel
1015-0131	Meat Grader
1015-0133	Fruit and Vegetable Classer
1015-0135	Quality Control Inspector, Food and Related Products
1015-0137	Yarn and Fabric Examiner
1015-0139	Quality Controller, Furniture, Cushions and Covers
1015-0141	Non-Destructive Testing Assistant
1015-0143	Inspector, Pharmaceuticals and Toiletries

## MINOR GROUP 1017 PACKAGING MACHINE OPERATORS

This minor group covers occupations concerned with operating machines to package items.

Occupations in this minor group are classified into the following unit groups:

### 1017-01 PACKAGING MACHINE OPERATORS

#### 1017-01 PACKAGING MACHINE OPERATORS

This unit group covers occupations concerned with operating and attending packaging machines on a continuous process or single cycle production line.

**Entry Requirements:** No formal requirements, but up to 6 weeks' training.

**Activities:** Checking cleanliness and efficient operation of machine; loading and unloading machine either manually or using automated feeding system; monitoring operation to

ensure supply and efficient functioning; taking where appropriate, corrective action or advising superior; cleaning machine and work area; keeping records; and stacking or storing goods.

#### Occupations:

1017-0101	Packaging Line Machine Operator, General (Except Food and Chemicals)
1017-0103	Bottling Machine Attendant
1017-0105	Liquids Filler

1017-0107	Baling or Compression Machine Operator	1017-0117	Packaging Machine Feeder
1017-0109	Machine Labeller	1017-0119	Sack/Bag Filler
1017-0111	Strapping Machine Attendant	1017-0121	Carton Cutting and Creasing Forme Setter
1017-0113	Automatic Palletiser/Depalletiser Operator	1017-0199	Packaging Machine Operators, nec
1017-0115	Carton Packing Machine Attendant		

### **MINOR GROUP 1099**

### **OTHER PROCESSING OCCUPATIONS**

This minor group covers occupations concerned with processing, fabricating and related activities not elsewhere classified in this major group.

Occupations in this minor group are classified into the following unit groups:

#### **1099-99 OTHER PROCESSING OCCUPATIONS**

##### **1099-99 OTHER PROCESSING OCCUPATIONS**

This unit group covers occupations concerned with carrying out processing and related tasks not elsewhere classified in this major group.

##### **Occupations:**

1099-9901	Brushmaker
1099-9903	Linoleum Maker

1099-9905 Assistant Linoleum Maker

1099-9907 Assistant Soap Maker

##### **Related Occupations:**

1013-11	Other Food and Related Products Machine Operators (Unit Group)
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## **MAJOR GROUP 11**

### **BASIC MANUAL OCCUPATIONS**

This major group contains those occupations which can be entered into with a minimum of training or experience, concerned with carrying out a range of repetitive manual tasks requiring little or no independent judgement. The usual entry requirement is a sufficient degree of manual dexterity for the performance of assigned tasks.

Occupations in this major group are classified into the following minor groups:

**1101 BASIC MANUAL OCCUPATIONS**

## MINOR GROUP 1101 BASIC MANUAL OCCUPATIONS

This minor group contains occupations concerned with performing duties as described under the Master Title LABOURER.

Occupations in this minor group are classified into the following unit groups:

- 1101-01 GARBAGE AND WASTE COLLECTORS
- 1101-03 LUGGAGE PORTERS
- 1101-05 FREIGHT AND FURNITURE HANDLERS
- 1101-07 HAND PACKERS
- 1101-09 OTHER FREIGHT AND GOODS HANDLING AND PACKAGING OCCUPATIONS
- 1101-11 CONSTRUCTION LABOURERS
- 1101-13 EARTHMOVING LABOURERS
- 1101-15 PAVING AND SURFACING LABOURERS
- 1101-17 RAILWAY LABOURERS
- 1101-19 SURVEY HANDS
- 1101-21 LABOURERS, ELECTRICAL POWER AND COMMUNICATION LINES
- 1101-23 LABOURERS, MINING AND MINERAL TREATING
- 1101-25 CLEANING OCCUPATIONS
- 1101-27 LAUNDRY OCCUPATIONS
- 1101-29 FACTORY HANDS AND LABOURERS
- 1101-31 FARM HANDS AND ASSISTANTS
- 1101-33 FORESTRY LABOURERS
- 1101-35 FISHERMEN/WOMEN, DECKHANDS ON FISHING VESSELS
- 1101-37 OTHER FISHING, HUNTING, TRAPPING AND RELATED OCCUPATIONS
- 1101-99 BASIC MANUAL OCCUPATIONS, NEC

### 1101-01 GARBAGE AND WASTE COLLECTORS

This unit group covers occupations concerned with collecting household, commercial and industrial waste for disposal.

**Entry Requirements:** No formal entry requirements.

**Activities:** As per Master Title LABOURER.

**Occupations:**

- 1101-0101 Garbage Collector

### 1101-03 LUGGAGE PORTERS

This unit group covers occupations concerned with loading and unloading customers' baggage, freight, mail and supplies at railway stations, seaports, airports and hotels.

**Entry Requirements:** No formal entry requirements.

**Activities:** Receiving and labelling customers' baggage, carrying customers' baggage to rooms or waiting cars; loading and unloading baggage cars; moving goods to appropriate receiving area; loading and unloading freight, mail, baggage and supplies into and from trains, ships and aircraft; and escorting hotel guests to rooms.

**Occupations:**

- 1101-0301 Railway Porter, Luggage
- 1101-0303 Ship's Porter

- 1101-0305 Aircraft Loader

- 1101-0307 Hotel Porter

### 1101-05 ROAD AND RAIL FREIGHT AND FURNITURE HANDLERS

This unit group covers occupations concerned with loading and unloading freight trucks, containers or railcars; assisting furniture removalist/driver to move and pack furniture and household goods.

**Entry Requirements:** No formal entry requirements.

**Activities:** As per Master Title LABOURER; receiving incoming goods and checking against relevant documents; labelling and repackaging goods; and loading and unloading goods.

**Occupations:**

- 1101-0501 Truck Driver's Offsider
- 1101-0503 Freight Handler (Road or Rail)
- 1101-0505 Furniture Removalist's Assistant
- 1101-0507 Furniture Packer
- 1101-0509 Assistant Storeman/woman

# 1101-07 HAND PACKERS

This unit group covers occupations concerned with non-machine packaging (except furniture packing).

**Entry Requirements:** No formal entry requirements.

**Activities:** Packing and packaging materials and products by hand.

## Occupations:

- 1101-0701 Meat Packer
- 1101-0703 Fruit/Vegetable Packer
- 1101-0799 Hand Packers, nec

# 1101-09 OTHER FREIGHT AND GOODS HANDLING AND PACKAGING OCCUPATIONS

This unit group covers occupations concerned with other freight and goods handling and packaging, e.g. manually loading and unloading ships.

**Entry Requirements:** No formal entry requirements.

**Activities:** As per Master Title LABOURER.

## Occupations:

- 1101-0999 Other Freight and Goods Handling and Packaging Occupations, nec

# 1101-11 CONSTRUCTION LABOURERS

This unit group covers occupations concerned with labouring on buildings and bridges, pipelines and related construction projects; and providing a service related to construction projects and established buildings.

**Entry Requirements:** No formal entry requirements for builders labourers; however, some experience and on-the-job training is required for building service occupations.

**Activities:** As per Master Title LABOURER; erecting and repairing fences and gates; and installing home improvements and insulation material.

## Occupations:

- 1101-1101 Builder's Labourer
- 1101-1103 Labourer, Building Site
- 1101-1105 Insulation Installer
- 1101-1107 Installer, Home Improvements
- 1101-1109 Fence Erector
- 1101-1199 Construction Labourers, nec

# 1101-13 EARTHMOVING LABOURERS

This unit group cover occupations concerned with performing manual duties in excavating earth materials, clearing and levelling sites, and digging irrigation ditches and channels.

**Entry Requirements:** No formal entry requirements.

**Activities:** As per Master Title LABOURER.

## Occupations:

- 1101-1301 Labourer, Earthmoving

# 1101-15 PAVING AND SURFACING LABOURERS

This unit group covers occupations concerned with performing manual duties in compacting and smoothing layers of material, and spreading and levelling bituminous paving material.

**Entry Requirements:** No formal entry requirements.

**Activities:** As per Master Title LABOURER.

## Occupations:

- 1101-1501 Labourer, Paving and Surfacing

# 1101-17 RAILWAY LABOURERS

This unit group covers occupations concerned with laying and repairing tracks used in rail and tramway services, or in transfer yards, quarries and mines; and performing basic manual duties as a member of a railway track construction or

maintenance crew.

**Entry Requirements:** No formal entry requirements.

**Activities:** As per Master Title LABOURER.

## Occupations:

- 1101-1701 Labourer, Railway Track

# 1101-19 SURVEY HANDS

This unit group covers occupations concerned with performing manual duties in cutting, marking, tagging and driving or embedding stakes into the ground to indicate grade settings, markers, or boundaries; measuring distances between survey points; marking measured points; and assisting surveyors on other tasks as directed.

**Entry Requirements:** No formal entry requirements.

**Activities:** As per Master Title LABOURER.

## Occupations:

- 1101-1901 Survey Hand

# 1101-21 LABOURERS, ELECTRICAL POWER AND COMMUNICATION LINES

This unit group covers occupations concerned with performing basic manual duties while assisting in the installation and maintenance of electrical power, lighting and communication equipment.

**Entry Requirements:** No formal entry requirements.

**Activities:** As per Master Title LABOURER.

## Occupations:

- 1101-2101 Labourer, Electrical Power and Communications

# 1101-23 LABOURERS, MINING AND MINERAL ORE TREATING

This unit group covers occupations concerned with labouring in the areas of mining and mineral ore treating (including in and about oil gas and pipelines).

**Entry Requirements:** No formal entry requirements.

**Activities:** As per Master Title LABOURER.

## Occupations:

- 1101-2301 Labourer, Quarry/Open Cut Mine
- 1101-2303 Labourer, Underground Mine
- 1101-2305 Labourer, Ore and Minerals Treating
- 1101-2307 Observer Helper, Gravity Prospecting
- 1101-2309 Observer Helper, Seismic Prospecting

# 1101-25 CLEANING OCCUPATIONS

This unit group covers occupations concerned with industrial and commercial cleaning; and the cleaning of buildings (including hospitals, factories and offices), vehicles, windows, carpets, streets, aircraft and chimneys.

**Entry Requirements:** No formal entry requirements.

**Activities:** Using commercial cleaning equipment in non-domestic establishments, public areas and transport.

## Occupations:

- 1101-2501 Industrial Cleaner
- 1101-2503 Commercial Cleaner
- 1101-2505 Hospital Cleaner
- 1101-2507 Window Cleaner
- 1101-2509 Carpet Cleaner
- 1101-2511 Vehicle Cleaner
- 1101-2513 Cabin Cleaner
- 1101-2599 Cleaning Occupations, nec

# 1101-27 LAUNDRY LABOURERS

This unit group covers occupations concerned with tending and operating equipment in a commercial laundry.

**Entry Requirements:** No formal requirements, but some training in the use of machines may be required.

**Activities:** As per Master Title LABOURER.

**Occupations:**

- 1101-2701 Laundry Machine Attendant
- 1101-2703 Labourer, Laundry

**1101-29 FACTORY HANDS AND LABOURERS**

This unit group covers occupations concerned with labouring predominantly indoor or undercover in manufacturing and production establishments.

**Entry Requirements:** No formal entry requirements.

**Activities:** As per Master Title LABOURER.

**Occupations:**

- 1101-2901 Factory Hand/Labourer, Metal Processing
- 1101-2903 Labourer, Sawmill
- 1101-2905 Factory Hand/Labourer, Wood Products Fabricating
- 1101-2907 Factory Hand/Labourer, Wood Processing
- 1101-2909 Factory Hand/Labourer, Pulp, Papermaking and Paper Product Fabricating
- 1101-2911 Factory Hand/Labourer, Cement Plant
- 1101-2913 Factory Hand/Labourer, Clay Processing
- 1101-2915 Factory Hand/Labourer, Chemical Plant
- 1101-2917 Labourer, Meatworks
- 1101-2919 Factory Hand/Labourer, Dairy Processing
- 1101-2921 Labourer, Hide and Skin Processing
- 1101-2923 General Hand, Printing
- 1101-2925 Kitchenhand

**1101-31 FARM HANDS AND ASSISTANTS**

This unit group covers occupations concerned with labouring or assisting on farms, market gardens and orchards; and wool pressing.

**Entry Requirements:** No formal entry requirements although a heavy vehicle driving licence may be required in some cases.

**Activities:** As per Master Title LABOURER; and specifically, a variety of general duties on livestock, horticultural or field crop farms, or in a shearing shed, apiary or hatchery.

**Occupations:**

- 1101-3101 Farm/Station Hand, Livestock and/or Field Crops
- 1101-3103 Farm Hand, Fruit and Vegetables (Horticultural Crops)
- 1101-3105 Shearing Shed Hand
- 1101-3107 Apiary Assistant
- 1101-3109 Hatchery Assistant
- 1101-3111 Farm Labourer
- 1101-3113 Wool Presser

**1101-33 FORESTRY LABOURERS**

This unit group covers occupations concerned with labouring in the areas of forestry and logging; maintaining and protecting forests; felling trees and sawing felled trees into logs; and other logging activities.

**Entry Requirements:** Year 8-10 in some cases.

**Activities:** As per Master Title LABOURER; collecting seeds; raising and planting nursery seedlings; controlling forest fires; selecting and marking timber for cutting; felling and delimbing trees; and surveying forest areas.

**Occupations:**

- 1101-3301 General Forestry Worker
- 1101-3303 Tree Marker
- 1101-3305 Hardwood Faller
- 1101-3307 Softwood Faller
- 1101-3309 Timber Assessor
- 1101-3311 Landing Operator (Logging)
- 1101-3399 Other Forestry Occupations, nec

**1101-35 FI SHERMEN/WOMEN, DECKHANDS ON FISHING VESSELS**

This Unit Group covers occupations concerned with working as crew members of vessels, catching fish, crustaceans and molluscs with various types of equipment.

**Entry Requirements:** An appropriate Assistant Fisherman/woman's licence.

**Activities:** Baiting hooks and pulling back on board vessels; tying lines to poles and putting line in water and hauling onto deck by hand or using reel; fastening bait inside pots and traps, lowering pots and retrieving them; assisting abalone diver; preserving, stowing and refrigerating catch; repairing nets; and assisting in operation and maintenance of vessel and equipment.

**Occupations:**

- 1101-3501 Fisherman/woman, Deckhand on Sea-Going Fishing Vessels
- 1101-3503 Fisherman/woman, Inland Waters and Estuary

**1101-37 OTHER FISHING, HUNTING, TRAPPING AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with cultivating and harvesting oysters; assisting other workers to collect, incubate and rear fish and other aquatic life and maintaining equipment, premises and grounds of fish farm/hatchery; and hunting, trapping and shooting feral and native animals.

**Entry Requirements:** No formal requirements.

**Activities:** Selecting beds and collecting cultch oysters and setting them out on tarred sticks; assisting in incubation and rearing of fish; maintaining equipment, premises and grounds of hatchery; purchasing supplies and equipment; arranging sales and keeping accounts and other records; hunting and shooting animals; and tracking animals and placing baits and setting traps and snares.

**Occupations:**

- 1101-3701 Oyster Grower
- 1101-3703 Oyster Grower's Assistant
- 1101-3705 Fish Farm Worker
- 1101-3707 Shooter/Trapper
- 1101-3799 Fishing and Related Occupations, nec

**1101-99 BASIC MANUAL OCCUPATIONS, NEC**

This unit group covers basic manual occupations not elsewhere classified in Minor Group 1101: BASIC MANUAL OCCUPATIONS.

**Occupations:**

- 1101-9901 Nursery Attendant (Horticulture)
- 1101-9903 Animal Attendant
- 1101-9905 Crematorium Assistant
- 1101-9907 Groundsman/woman, Lodging and Accommodation
- 1101-9909 Handyman/woman
- 1101-9911 Canteen Assistant
- 1101-9913 Vending Machine Attendant

## **MAJOR GROUP 12**

### **OCCUPATIONS, NOT ELSEWHERE CLASSIFIED**

This major group contains civilian occupations not classified in the Major Groups 1-11. Military Occupations are classified in Major Group 13: MILITARY OCCUPATIONS.

Occupations in this major group are classified into the following minor groups:

- 1201 RELIGIOUS OCCUPATIONS, NEC
- 1203 PERFORMING ARTS OCCUPATIONS
- 1205 SPORTING OCCUPATIONS

## MINOR GROUP 1201 RELIGIOUS OCCUPATIONS, NEC

This minor group contains religious occupations other than ministers of religion which are classified in Major Group 02: PROFESSIONAL OCCUPATIONS. There are no formal entry requirements for this minor group.

Occupations in this minor group are classified into the following unit groups:

### 1201-01 RELIGIOUS OCCUPATIONS, NEC

#### 1201-01 RELIGIOUS OCCUPATIONS, NEC

This unit group covers religious occupations other than ministers of religion.

**Entry Requirements:** No formal requirements.

**Activities:** Discrimination of religious faiths, prayer and contemplation of religious mysteries; assisting in the learning

of religious organisations; and the performing of charitable works.

#### Occupations:

1201-0101	Nun/Monk
1201-0103	Religious Education Worker
1201-0199	Other Religious Occupations, nec

## MINOR GROUP 1203 PERFORMING ARTS OCCUPATIONS

This minor group contains occupations involving participation in performances before an audience in the various media including stage, radio, television and film. There are no formal entry requirements for this Minor Group, although degree and diploma courses are available in certain fields.

Occupations in this minor group are classified into the following unit groups:

### 1203-01 ACTORS

### 1203-03 POPULAR ENTERTAINERS AND STAGE PERFORMERS

### 1203-05 MUSICIANS AND RELATED OCCUPATIONS

### 1203-07 DANCERS

### 1203-09 MODELS

### 1203-11 ANNOUNCERS AND RELATED OCCUPATIONS

#### 1203-01 ACTORS

This unit group covers occupations concerned with the stage or film performances of roles including representation using puppets.

**Entry Requirements:** No formal requirements, extensive experience needed.

**Activities:** Speaking and moving in ways to convey a story or theme and emotional reactions; moving without the aid of speech or props to convey particular activities; and the manipulation of various types of puppets to represent human activities.

#### Occupations:

1203-0101	Actor
1203-0103	Teacher, Dramatic Art (Private)
1203-0199	Actors and Related Occupations, nec

#### 1203-03 POPULAR ENTERTAINERS AND STAGE PERFORMERS

This unit group covers occupations concerned with stage performances not designed to represent a story but to amuse, startle or astound audiences.

**Entry Requirements:** No formal requirements.

**Activities:** Telling jokes; wearing bizarre clothing and moving in odd ways; and performing tricks and feats of motor skill.

#### Occupations:

1203-0301	Comedian
1203-0303	Variety Artist
1203-0399	Popular Entertainers and Stage Performers, nec

#### 1203-05 MUSICIANS AND RELATED OCCUPATIONS

This unit group covers occupations concerned with the performance of vocal and instrumental music.

**Entry Requirements:** No formal requirements, musical ability and experience required.

**Activities:** Singing; playing a musical instrument; and leading a group of musicians.

#### Occupations:

1203-0501	Choral Director
1203-0503	Concert and Opera Singer
1203-0505	Instrumental Musician
1203-0507	Orchestra Conductor
1203-0509	Popular Singer
1203-0511	Teacher, Instrumental Music (Private)
1203-0513	Teacher, Vocal Music (Private)
1203-0599	Musicians and Related Occupations, nec

**1203-07 DANCERS**

This unit group covers occupations concerned with various types of dancing.

**Entry Requirements:** No formal requirements, dancing ability and experience needed.

**Activities:** Dancing solo or in company, according to set routines or extemporaneously; and following choreographer's directions.

**Occupations:**

1203-0701 Dancer

**1203-09 MODELS**

This unit group covers occupations concerned with displaying goods, by personal presentation.

**Entry Requirements:** No formal requirements, suitable physical characteristics needed.

**Activities:** Moving about within designated area to display clothing; and holding up or otherwise indicating display goods.

**Occupations:**

1203-0901 Model

**1203-11 ANNOUNCERS AND RELATED OCCUPATIONS**

This unit group covers occupations concerned with introducing to live and radio audiences, artists who are to perform, or whose work is to be played.

**Entry Requirements:** No formal requirements.

**Activities:** Announcing artists in variety performances; interviewing public persons on radio and television; describing the state of play in sporting events; interrogating contestants in competitive programmes; and reading news and weather reports.

**Occupations:**

1203-1101 Announcer

1203-1103 Compere

1203-1105 Disc Jockey

1203-1107 Sport Commentator

## MINOR GROUP 1205 SPORTING OCCUPATIONS

This minor group contains professional sportspersons and related support occupations. There are no formal entry requirements for this minor group.

Occupations in this minor group are classified into the following unit groups:

1205-01 COACHES, TRAINERS AND INSTRUCTORS (SPORT)

1205-03 SPORTS OFFICIALS

1205-05 PROFESSIONAL SPORTSPERSONS

1205-07 SPORTING OCCUPATIONS, NEC

**1205-01 COACHES, TRAINERS AND INSTRUCTORS (SPORT)**

This unit group covers occupations concerned with training persons in various sports.

**Entry Requirements:** No formal requirements, although courses in sports science are available.

**Activities:** Explaining techniques and strategies to sports persons; detecting and correcting faults; and motivating sportspersons to improve performances.

**Occupations:**

1205-0101 Coach, Sport

**1205-03 SPORTS OFFICIALS**

This unit group covers occupations concerned with enforcing rules and regulations governing sporting events.

**Entry Requirements:** No formal requirements, considerable experience and knowledge of the appropriate rules and regulations.

**Activities:** Inspecting and co-ordinating horse and dog races and enforcing rules; starting races; judging results; assigning handicaps; inspecting equipment; deciding whether rules have been infringed or points scored; and assigning penalties at cricket, football, boxing and wrestling matches and the like.

**Occupations:**

1205-0301 Steward, Race

1205-0303 Referee

**1205-05 PROFESSIONAL SPORTSPERSONS**

This unit group covers occupations concerned with participating in sports as a competitor.

**Entry Requirements:** No formal requirements except for Jockeys who undertake and apprenticeship.

**Activities:** Riding horses at race meetings; driving racing cars or motor cycles; driving in harness races; and playing cricket, football, golf and the like.

**Occupations:**

1205-0501 Jockey

1205-0503 Driver/Cyclist (Sport)

1205-0599 Professional Sportspersons, nec

**1205-99 SPORTING OCCUPATIONS, NEC**

This unit group covers occupations concerned with participation in sports except as a competitor, coach or official.

**Entry Requirements:** No formal requirements; varying amounts of training.

**Occupations:**

1205-9999 Sporting Occupations, nec

## **MAJOR GROUP 13**

### **MILITARY OCCUPATIONS**

This major group covers all occupations in the armed forces. Unlike other ASCO major groups, it is not based on kind of work and thus contains occupations which could otherwise be classified to other major groups. However, since it was felt that the inclusion of military occupations in other major groups would reduce the reliability of statistics obtained (due to difficulties in allocating military personnel to kind-of-work categories) and could also render them less useful in certain applications, the classification of these occupations in a separate major group was judged to be preferable.

## APPENDIX I

### MASTER TITLES

#### **ACADEMIC RESEARCH ASSISTANT\***

Conducts research in a particular field of knowledge at a university or college of advanced education under the supervision of lecturers and researchers.

Gathers information and data through observation, interviewing and/or perusal of documents. Makes preliminary analysis and evaluation of data. Reports findings verbally or in writing to the lecturer or researcher responsible for the research project.

*\*Includes Senior Academic Research Assistant*

#### **APPRENTICE**

A worker who is bound by a contractual or training agreement to an employer for a specified period of time, with a view to learning a craft or trade in which the employer is obligated to instruct him/her.

In general, the agreement sets out the minimum number of hours of training required to complete the apprenticeship and outlines wage increases throughout the program on the basis of a graduated minimum scale, related to the wage rate for the corresponding tradesperson. An apprentice is provided by his/her employer with training lasting from 2 1/2 to 4 years. In most cases this comprises on-the-job training, but some employers provide apprentices with a period of structured off-the-job training in a formal training centre which is provided by the employer, or by a group of employers. In most cases, apprentices also receive mandatory technical education during working hours in a State/Territory Technical and Further Education establishment. Apprenticeship programs come under the guidance of apprenticeship authorities and advisory bodies representing management, labour and government. Entry age and educational levels, health standards and training requirements vary with the apprenticed occupation and are frequently specified by State legislation. Minimum entry age to most apprenticeships is 15 years, although apprentices to printing trades in the Northern Territory must be under 18 years of age. Some Federal Awards prescribe maximum completion/entry age. In some cases, apprenticeship duration is reduced in recognition of educational or pre-vocational attainment prior to or during the apprenticeship. Normally the successful completion of eight to eleven years schooling depending on State legislation is required before commencing an apprenticeship. An examination on all phases of training usually terminates the program, and successful completion results in the receipt of a certificate of apprenticeship. Workers who complete an apprenticeship program may be statutorily required to obtain licences or pass certificate examinations before being permitted to practise their trade.

#### **CONSULTANT**

Utilises expertise and knowledge of a specialised field of activity to evaluate and recommend improvements in the practice of that specialisation in a commercial, industrial, governmental or other organisation by performing any combination of the following duties.

Analyses objectives, policies, methods and procedures relating to specialisations such as personnel administration, labour relations, public relations, safety standards, product administration, work methods, marketing administration, procurement and introduction of plant and equipment in line with technological advances, data processing, and the various branches of engineering and science. Devises tests, prepares flow charts, conducts interviews and examines records and other data to determine degree to which objectives are being achieved. Undertakes the design and supervision of construction or engineering work. Acts as an independent adviser on scientific or engineering matters. Prepares reports and recommendations for modification and changes in policies, methods, practice and procedures to improve effectiveness in achieving objectives. Assists with implementation of recommendations by such means as revising procedures, and preparing and conducting retraining sessions.

#### **DESIGN ENGINEER**

Applies engineering principles to the planning, design and development of equipment, structures, machines, components, processes, schemes or systems, by performing any combination of the following duties.

Analyses the proposal for a design project, determines requirements and gathers data for the development

of a practical design. Assesses feasibility with respect to cost, space and time limitations, availability of material and equipment, and other technical, economic and policy factors. Determines operational parameters. Prepares preliminary and final designs and specifications, cost estimates and time programs for implementation. Supervises preparation of working drawings. Evaluates, interprets and writes reports. Prepares and evaluates tenders and contracts. Compiles and authorises operational and maintenance data. Consults with research, construction, manufacturing, operation and maintenance workers, and with customer and client representatives, to resolve problems related to the scheme, system, structure or product to be designed and to consider questions of aesthetics, manufacture, construction, operation, maintenance, environment and/or safety. Supervises and co-ordinates the work of technical officers, technicians and other workers.

May direct tests to establish standards for new designs or make modifications to existing equipment, products or processes. May supervise commissioning of plant or equipment after installation.

### **GENERAL MANAGER**

Plans, organises, directs and controls the major functions of an industrial, commercial, governmental or other establishment through departmental managers and other subordinate executives, and within powers delegated by a directorate, governing body, or official decree, by performing any combination of the following duties.

Establishes organisation objectives, formulates and approves policies and programs, and sets standards by: using knowledge of organisation's capacities; analysing economic, social, technical, legal and other trends; consulting with subordinate managers and executives; and reviewing staff recommendations and reports. Authorises establishment of major departments and key executive positions, and funds to implement departmental policies and programs. Selects or approves selection of departmental managers and senior staff, delegates authority and approves overall personnel program. Directs, motivates and develops skills of executive and managerial personnel to foster productivity, growth and high morale, exercising leadership ability and using knowledge of management science. Co-ordinates activities of departments or other functional units by utilising staff conferences, schedule boards, flow charts and other devices, and by developing effective lines of communication. Provides for administration controls, such as reports, audits and inspections. Maintains awareness of developments affecting objectives and policies, and takes initiative in effecting remedial action or needed adjustments, in consultation with executives concerned. Assumes responsibility for products or services of establishment. Represents organisation, or delegates representatives in negotiations, and at conventions, seminars and other official occasions. Entertains officials, develops liaison with other organisations and frequently sits on charitable, educational or other civic committees, to promote good public relations. General managers are designated according to the industry in which they work, and frequently, as senior officials, hold appointments, such as President, Vice-President or Chairman of the Board or other governing body.

### **LABOURER**

Performs one or more uncomplicated tasks, basically manual in nature, involving such functions as feeding, offbearing, and handling materials and objects, which may require the use of simple tools or equipment.

In the performance of his/her duties may be required to speak to, signal or serve other persons and carry out simple functions such as copying and comparing. Applies common sense understanding to carry out tasks in standardised situations with occasional or no variables in or from these situations. Normally, these tasks require only simple demonstration, instructions or explanation in preparation for average performance on the job, though in some instances training may last a few days.

### **LECTURER/TUTOR (HIGHER EDUCATION)\***

Teaches one or more subjects at an institution of higher education, performing any combination of the following duties.

Prepares and delivers lectures to students. Conducts tutorials, seminars and/or laboratory sessions. Stimulates and guides class discussions. Compiles bibliographies of specialised materials for reading assignments. Prepares and administers examinations, and marks examination scripts. Assigns and marks essays. Supervises research students and marks research theses. Creates new courses and develops the content of courses to keep abreast of modern thinking. Advises students on academic and other matters.

Prepares specialist course materials and provides teaching services to external students. Conducts research in a particular field of knowledge and prepares reports of findings for publication in books or professional journals. Serves on faculty, institute, State, national and specialist committees concerned with such matters as curriculum revision, academic planning, and degree and award requirements. Maintains a knowledge of relevant professional requirements. Attends staff meetings and other departmental meetings concerned with issues such as workshop requirements, departmental budgeting, staffing levels and appointment of new personnel, library requirements and departmental policy matters. Attends regional, national and international conferences dealing with academic specialisation. Provides professional consultative services to government, industry and private individuals.

May act as convenor of one or more courses, co-ordinating staff involved in course, organising changes to course curricula, and determining timetabling of examinations and grading levels of examination scripts. May serve periods as chairperson of an academic department or dean of a faculty or school.

*\*Includes Senior Tutor, Demonstrator, Senior Demonstrator, Teaching Fellow, Senior Teaching Fellow, Senior Lecturer, Principal Lecturer, Reader, Associate Professor, Professor.*

## MANAGER

Plans, organises, directs and controls the activities of a department, division, program, regional office or other unit of an industrial, commercial, governmental or other establishment, through subordinates who are at a supervisory level or above and within policies laid down by senior management, by performing any combination of the following duties.

Establishes procedures to implement policies and directives of senior management, and recommends changes in policies to achieve assigned objectives, based on detailed knowledge of the unit's performance capabilities. Prepares and submits financial estimates for approval. Determines organisational structures in his/her unit, and defines subordinate managerial and supervisory functions. Selects or approves appointment of subordinate staff, and directs their training to ensure efficient usage of personnel and material. Co-ordinates activities within assigned areas and with other departments or units by conferring with other managers or subordinates and utilising schedule boards, flow charts and similar devices. Reviews effectiveness of assigned operations, enforces regulations, prepares reports, and advises senior management of trends in own operations which may be significant for other units of the organisation. Assumes responsibility for operations of his/her unit. Assists staff with important and difficult administrative or technical problems. Negotiates with specialists, technical consultants and external organisations on matters such as business services and union contracts. Represents organisation on boards or committees as a delegated specialist, or in a public relations capacity.

Managers are usually designated according to assigned responsibility in the department or other unit of the organisation.

## PRODUCTION ENGINEER

Applies engineering principles to the planning, development and utilisation of manufacturing systems and production facilities for the efficient, economic and safe use of machines, materials and labour, by performing any combination of the following duties.

Ascertains production objectives and requirements for production facilities. Plans and designs production sequences and methods. Develops optimum work flow patterns, procedures and layouts, and recommends or selects plant and equipment. Prepares production master plan, taking into consideration sequence, lead times, tooling, machine loadings, material and manpower requirements. Selects and develops manufacturing processes using new or existing machinery and equipment. Introduces or recommends changes in methods, work procedures, equipment utilisation, safety precautions and organisation of labour. Plans and supervises time and motion studies, establishes performance standards and makes statistical evaluations of results. Evaluates performance of machines and equipment, and determines replacement and modification needs. Establishes and supervises quality control standards. Co-ordinates design and research work with manufacturing and production functions. Evaluates, interprets and writes reports on various aspects of planning and control of production. Revises and implements cost control systems. Consults with other technical workers on technical, safety and environmental matters. Supervises and co-ordinates the work of technical officers, technicians and other workers.

**RESEARCH ENGINEER**

Engages in basic and applied research directed towards the investigation, evaluation and application of scientific theories and engineering principles related to practical engineering problems, schemes or systems, by performing any combination of the following duties.

Conducts studies in one or more branches or aspects of engineering applied to a field such as energy, electric power, hydraulics, process control, mineral beneficiation, structures, transportation, water supply, chemical processes, or electronic computation or control. Consults with other engineers and scientists regarding the use, development or improvement of new or existing materials, products, processes or services. Follows studies through inception, drafting, production of prototype model or pilot plant, and prepares engineering reports. Supervises and co-ordinates the work of technical officers, technicians and other workers who may act in direct support of research activities.

**SUPERVISOR/FOREMAN/WOMAN**

Supervises and co-ordinates activities of other workers engaged in one or more occupations, by performing any combination of the following duties.

Studies assignments, determines manpower requirements, and estimates materials and supplies needed for completion of work. Establishes methods to meet work schedules, using knowledge of capacities of workers, machines and equipment. Requisitions materials and supplies as indicated. Engages workers and assigns duties to them. Recommends or initiates personnel actions such as promotions, transfers, discharges and disciplinary measures, and maintains personnel and attendance records. Trains or arranges for the training of workers and explains organisational policies. Sets up machines and equipment, and interprets work orders, specifications or technical drawings. Initiates or suggests plans to motivate workers to achieve goals. Co-ordinates activities of own workers and confers with other supervisors, foremen/women and/or superiors to avoid conflicts with other units or departments. Ensures that quality of work meets preset standard, inspects materials received and enforces safety regulations. Analyses and resolves work problems. Prepares and submits production, progress or other reports. Recommends measures to improve work methods, equipment performance, quality of product service and working conditions. Confers with workers or their representatives to resolve complaints and grievances.

When supervising workers engaged in one occupation, is usually required to be adept in activities under supervision. When supervising workers engaged in several occupations, is required to possess general knowledge of activities involved. Supervisors and/or foremen/women are designated according to type of work supervised, process involved, craft of workers supervised, products manufactured or industry in which work occurs. A working supervisor and/or foreman/woman, commonly known as a leading hand or group leader, who primarily performs the same duties as the workers supervised, is identified by the same occupational title as the workers.

**SUPERVISOR MANAGER**

Plans, organises, directs and controls the operations of an establishment engaged in retail or wholesale trade, or in providing services to the public, to business or other organisations, on own or owner's behalf or in partnership, and supervises and co-ordinates activities of subordinate workers, by performing any combination of the following duties.

Estimates consumer demands, and determines or recommends types and quantities of merchandise or services to be sold, and price and credit policies to be implemented. Defines operating procedures. Plans budget, prepares or supervises preparation of purchase orders for stock and supplies, and authorises or obtains authorisation for expenditures. Establishes layout of premises, determines staff functions and numbers, and hires or arranges for hiring of staff. Assigns duties, sets salaries and initiates personnel action such as promotions and discharges. Supervises and trains workers, or oversees supervision and training. Co-ordinates activities of workers to ensure efficient operations. Counts and deposits money received or supervises handling of money, takes or verifies inventories, and keeps accounts and other records. Ensures that safety, health and security regulations are followed. Promotes the sale of establishment goods or services, and approves advertising and display work. Receives and acts on customer complaints. Confers with workers or their representatives to resolve grievances and other employee problems.

**TEACHER (TAFE)**

Teaches one or more subjects within a prescribed curriculum to TAFE students by performing any combination of the following duties.

Teaches courses leading to professional status including service programs for higher education institutions; para-professional courses designed to train people to provide support for related professional occupations in industry, commerce, agriculture and the public services; pre-apprentice and other trade-based pre-employment courses, trade (apprentice) and post-trade courses; non-apprentice basic vocational courses; access courses designed to assist people to prepare for entry to other TAFE courses and other post-secondary educational programs in addition to remedial classes in a variety of subjects; and/or recreational courses. Prepares for, and conducts, teaching sessions such as seminars, small group discussions, case studies, demonstrations, laboratory and/or workshop sessions utilising audio-visual and other teaching aids and equipment. Takes students on field visits. Prepares, administers and marks examination papers. Sets and marks assignments and class work. Assesses students' practical work. Serves on committees concerned with curriculum revision, course planning and award requirements. Assists students in selecting courses of study and advises them on academic and other problems. Arranges work placement for students. Participates in staff and professional/trade meetings. Attends conferences related to subject speciality and/or trade area. Maintains contact with relevant branches of industry and commerce.

**TECHNICAL OFFICER\***

Carries out a variety of technical functions in a branch of physical science, life science or engineering, primarily in support of research, development, design, process control or maintenance activities, using knowledge of scientific, mathematical, engineering, design drafting and/or laboratory principles and practices, by performing any combination of the following duties.

Assists scientists, engineers and other technical workers in design and development of research methods and equipment, and of products, processes, systems and industrial machinery and equipment by searching reference publications, preparing design drawings, performing tests and analyses, developing design specifications, and constructing or overseeing the construction of equipment for tests, analyses and experiments, or for projects or processes; plans and schedules work. Sets up scientific equipment for tests, analyses and experiments. Calibrates precision equipment where necessary. Conducts experiments, tests and analyses requiring a high degree of skill and judgment or involving a large number of operations with many possible sources of error. Modifies and adapts procedures and equipment as required. Diagnoses faults in complex equipment or processes, and problems in tests or production, and takes corrective action. Interprets and evaluates experimental, test and other data at a level below that undertaken by an engineer or scientist. Prepares reports and recommendations based on findings.

May in some situations work independently of scientists, engineers and other technical workers. May assist in preparing material for publication.

*\*Includes Senior Technical Officer.*

**TECHNICIAN**

Carries out a limited range of technical functions in a branch of physical science, life science or engineering, primarily in support of the activities of scientists, engineers or technical officers, in relation to testing, analysis, quality control, operation or maintenance activities, using a basic knowledge of scientific, mathematical, engineering, drafting and/or laboratory techniques and practices, by performing any combination of the following duties.

Interprets work assignment instructions, selects and adapts standard procedures, techniques and equipment, and establishes work sequence. Prepares, marks, measures or weighs test materials or samples, using various standard techniques and equipment. Sets up laboratory and other scientific equipment as required. Operates and manipulates complex systems, equipment and processes, and applies standard maintenance and diagnostic techniques to them. Prepares detailed drawings for the manufacture and installation of equipment or for construction projects. Conducts routine experiments, tests, analyses and other technical procedures, and records and organises observations and conclusions. Makes calculations and prepares charts, graphs and other supporting data for reports.

May assist other technical workers or perform duties independently.

## APPENDIX II

### JOB CONTENT FACTORS

- Outline: I Worker components
- II Materials components
- III Functions components
- IV Context components
- V Indicators
- VI Quick reference table

#### I Worker components

Persons faced with selecting an occupation need to take into account a number of factors. Suitability for an occupation is a primary consideration, not only to ensure efficiency in performing the occupation, but also to increase the possibilities that the worker will find the work personally satisfying. Possible questions which may be asked are:

- Does the enquirer have the basic qualifications and requirements to do the work?
- Does the enquirer appreciate the kinds of tasks involved in the occupation?
- Is the work in the occupation likely to be compatible with the enquirer's interests?

Information relevant to these questions is provided in the first section of the coded Job Content material.

An example of an entry is:

<i>Workers</i>	
FP: GE12y PSP6y(HD)	IP:
or FP: GE12y PSP4y(Hons)	IP:
HC: ISA	RQ: U1

The main abbreviated identifiers are:

- FP: Formal preparation
- IP: Informal preparation
- HC: Holland category
- RQ: Special requirements

In order of appearance, the explanation for all possible coded entries in this section is as follows:

#### FP 1 Formal Preparation (FP)

Where occupations are normally undertaken by persons who have had specific "formal" preparation, that is, have undertaken courses in educational institutes or have completed formalised training under supervision, the nature of that formal training is indicated following the identifier "FP", with a selection from the categories below.

**GE** **General education** will be expressed first. The number of years of primary plus secondary schooling which is either usually necessary in order to undertake post-school training, or is the minimum typically expected by employers will appear after the letters "GE".

**PSP** **Post-school preparation** of both a formal and an informal nature will be recorded next inasmuch as it is usually required by people currently wishing to enter an occupation. It should not be taken that all workers at present in an occupation have completed the formal and informal kinds of training specified, but at the time of preparation of ASCO these were the typical entry requirements.

The amount of time (represented as duration of full or part-time involvement) required to complete post-school preparation will be recorded after the letters "PSP", and in turn will be followed by symbols in brackets to indicate the type of training required. The type of training is related to the existing course coding systems of the Australian Council on Awards in Advanced Education (ACAAE) and of the Technical and Further Education Council (TAFEC), though it should be noted that the latter is currently being revised. The symbols denote range and/or a combination from the following list:

**HD** If a **higher degree**, Doctor's or Master's or equivalent is typically required, "HD" will appear in brackets. This level approximates level PG2 of the (ACAAE) course coding system.

**PG** If a **post-graduate diploma** or **honours degree** is typically required, "PG" will appear in brackets. This level is equivalent to the PG1 level of the ACAAEE course coding system.

- D** If a first or **bachelor's degree** is typically required, "**D**" will appear in brackets. This is the UG1 level of the ACAAE system.
- Dip** If a **diploma** is typically required, "**Dip**" will appear in brackets. This is the UG2 level of the ACAAE system.
- ADip** If an **associate diploma** is typically required, "**ADip**" will appear in brackets. This corresponds to the UG3 level of the ACAAE system.
- PPC** If a "**para-professional certificate** or similar qualification is typically required, "**PPC**" will appear in brackets. This is approximately equivalent to the current stream 2 level of the TAFEC course coding system.
- T** If a **trade or post-trade qualification** is typically required "**T**" will appear in brackets. This corresponds to the current stream 3 level of the TAFEC course coding system.
- B** If some other **basic** vocational training is required, at the level of the current stream 4 in the TAFEC course coding system, "**B**" will appear in brackets.

## **IP 2 Informal Preparation (IP)**

Not all workers are required to undergo formal training before being considered suitable for an occupation. Indeed in some cases informal preparation is considered by employers to outweigh the gains of a formal course of preparation. In ASCO, informal preparation is taken to cover on-the-job training and experience. These components, if important to an occupation, are recorded after the identifier "**IP**".

- T** If **on-the-job training** is a major mode of preparation for workers in an occupation "**T**" will appear after the identifier "**IP**" and it will be followed immediately by the number of weeks, months or years it usually takes for that on-the-job training to be completed, or for the person to be regarded as fully competent.
- E** If **experience** in the same or a related field or occupation is a prerequisite for workers hoping to enter the occupation, the letter "**E**" will appear followed immediately by the number of weeks, months or years of experience typically sought by employers.

## **HC 3 Holland category**

The work of John L Holland is now well known, and his categorisation of occupations and persons has been applied widely in both research and applied situations. The Canadian Department of Employment and Immigration has coded the entire Canadian Classification and Dictionary of Occupations by the Holland Codes. ASCO has taken the same approach. These codes may be used by counsellors and enquirers as a means of exploring the relationship between an applicant's interests in life and the scope offered for fulfilling those interests in particular occupations.

As is customary with Holland's system, an attempt has been made to supply three codes for every occupation. In theory, the order of the letters in the code is important. In ASCO a cautionary proviso needs to be added. Since the codes which have been attached to occupations have not been allocated on the basis of rigorous fieldwork, it is advisable for users not to place too much weight on the order of letters in each occupational code.

- R** If an occupation involves explicit, ordered or systematic manipulation of objects, tools or machines, and is not involved in educational or social activities, it will be categorised as a realistic occupation and the letter "**R**" will appear after the identifier "**HC**". Manual, mechanical, agricultural, electrical and technical competencies are usually involved in or developed by workers in these occupations.
- I** If an occupation involves observational, symbolic, systematic and creative investigation of physical, biological and cultural phenomena for the purposes of understanding and controlling them, it will be categorised as an investigative occupation, and the letter "**I**" will appear after "**HC**". Scientific and mathematical competencies are common among workers in these occupations.
- A** If an occupation involves unsystematised activities that require manipulation of physical, verbal or human materials to create art forms and products, it will be categorised as an artistic occupation and "**A**" will be recorded after "**HC**". Competencies in language, art, music, drama and writing are common among workers in these occupations.
- S** If an occupation involves dealing with people to inform, train, develop, cure or enlighten them, and have little to do with manipulation of materials, tools or machines, it will be categorised as a social occupation, and "**S**" will be recorded after "**HC**". Interpersonal and educational competencies are common among workers in these occupations.
- E** If an occupation involves activities whereby other people are manipulated to attain organisational goals or economic gain, with little in the way of observational, symbolic or systematic activities, the occupation will be categorised as an enterprising occupation and "**E**" will be found after "**HC**". Leadership skills and interpersonal and persuasive competencies are common among workers in these occupations.
- C** If an occupation involves the explicit, ordered and systematic manipulation of data, such as keeping records, filing materials, reproducing materials, organising written and numerical data according to a prescribed plan, the occupation will be categorised as conventional and the letter "**C**" will be recorded after "**HC**". Clerical, computational and business system competencies are common among workers in these occupations.

## **RQ 4 Special Requirements (RQ)**

Sometimes there are special requirements for people engaged in an occupation. In ASCO, seven of these requirements have been identified. Often these special requirements are peculiar to a particular job (as opposed to occupation) and employer. But where the requirements tend to belong to an occupation irrespective of employer, they have been recorded in the Job Content section of the occupational entry.

- L** A driver's **licence** is sometimes required, and if this is a requirement for an occupation, "**L**" will appear after the identifier "**RQ**".
- S** If some other kind of licencing is required, e.g. licencing through a State, Commonwealth or local authority in order

to carry out duties, or a special driver's category, then "S" will appear.

- P** **Personal dedication** is sometimes a feature of an occupation - over and above that found in almost every occupation because of the particular demands made by the public or individuals upon workers. If this is so, "P" will appear in the area after the identifier "RQ".
- Q** Individual **quality** is sometimes an overriding requirement. Workers are expected or required to display a particular aptitude or quality of a kind that is not usually obtained through any kind of formal or informal training, though it might be refined by a formal course or on-the-job training. If qualities such as artistic ability, language fluency, or physical appearance and deportment are key features in an occupation, this will be indicated by the symbol "Q" in the area after "RQ".
- U** **Updating job knowledge** or skill is sometimes a special requirement, over and above that expected in any occupation. If particular attention must be given to such updating, the symbol "U" will appear in the area after "RQ".
- D** **Dress** is sometimes an important feature of an occupation, either for appearance or protection. If workers are expected to wear a uniform or protective clothing, the symbol "D" will appear in the area after "RQ".
- V** **Visual performance** at a specific level or of a specific kind is sometimes critical for an occupation. If either acuity or colour discrimination is critical the letter "V" will appear in the area after "RQ".
- A** **Auditory perception** is likewise an important feature in a number of occupations. Where hearing or pitch discrimination is critical to an occupation, the letter "A" will appear in the area after "RQ".

## II Materials

Another set of questions an enquirer may ask about occupations relates to the kinds of materials worked with. Questions of this kind may have to do with the kinds of raw materials handled, or the kinds of equipment used, or may be more general.

In this section of the ASCO Job Content Factors, information is provided in response to two basic questions:

With what subject matter do people in different occupations spend most of their time?

What sorts of tools and equipment would workers have to use in different occupations?

The information is presented in the second section of the coded material, and appears in a format like this:

Materials	
SM: D2 I1 P1	EQ: P1 K2

The main abbreviated identifiers are:

SM: Subject Matter  
EQ: Equipment used

In order of appearance, the explanation for all possible coded information in this section is as follows:

### SM 1 Subject Matter (SM)

Developing a long tradition which began with the post-war rehabilitation work in Britain and continuing with the American *Dictionary of Occupational Titles* (DOT), ASCO provides information about the orientation of occupations towards Data, People and Things. However, because recent work<sup>1</sup> in the United States has suggested that "data" as traditionally used confounds data and ideas, ASCO has separated them and reported information on four components. Further, the worker functions of the DOT have been abandoned in favour of a simple rating scale.

- D** If **data** in the sense of facts or numbers are very common or important subject matter in an occupation, "D1" will appear in the area after the identifier "SM". "D2" will appear if they are only moderately common or important. "D" will not appear at all if data have a minor or no role at all in an occupation.
- I** If **ideas** expressed as theories, knowledge, words, music, even equations, or policy decisions, are very common or important subject matter in an occupation, the symbol "I1" will appear after "SM", but "I2" will appear if they are only moderately important or common. "I" will not appear at all if ideas have only a minor or no role at all in an occupation.
- P** If **people** (including animals when they are dealt with to improve or maintain their well-being) are very common or important subject matter in an occupation, "P1" will appear after "SM", but "P2" will appear if they are moderately common or important. "P" will not appear at all if people play a minor or no role at all in an occupation.
- T** If **things** (including animal products) are very common or important subject matter in an occupation, the symbol "T1" will appear in the area after "SM", but "T2" will appear if things are only moderately common or important. "T" will not appear at all if things play only a minor role or none at all.

### EQ 2 Equipment Used (EQ)

The kinds of equipment used in occupations varies enormously from small precision tools for delicate or highly accurate kinds of tasks to large stationary or mobile equipment used to perform grosser tasks. A relatively new breed of technological equipment is revolutionising the workforce. Eight categories of equipment have been identified in ASCO and occupational entries will be coded according to the kind and frequency of use of these categories of equipment.

- P** **Precision tools or instruments** are used by the workers in many occupations, both powered and hand operated. If

these are very common or important in an occupation, the symbol "P1" will appear after the identifier "EQ". If they are only moderately common or important the symbol will be "P2". If they are used infrequently or their role is unimportant, "P" will not appear at all.

- S** **Semi-precision tools or instruments**, like carpenters, mechanics or dressmaker's tools require a moderate level of precision. If an occupation makes very frequent or important use of such tools, the symbol "S1" will appear in this area after "EQ". If they are only moderately common or important "S2" appears, but if their use is minor or absent "S" will not appear.
- N** **Non-precision tools or instruments**, often long-handled, are rarely used for accurate work. Where use of such tools is very common or important in an occupation, the symbol "N1" will appear after "EQ". If moderately common or important "N2" will appear. "N" will not appear if these tools play a minor role.
- M** **Machines** may be found in great variety in many occupations. Wherever the use of machinery to process, modify or otherwise manipulate parts or materials is very important or common, the symbol "M1" will appear in the area after "EQ". If the use of machinery is moderately common or important "M2" will appear instead, and "M" will not appear at all otherwise.
- K** **Keyboard devices** are playing an increasingly important role in work. Wherever the use of finger controlled keys or tabs is very common or important for an occupation, the symbol "K1" will appear after "EQ". If the use of keys or keyboards is moderately common or important, "K2" will appear. Otherwise "K" will not appear in this section at all.
- V** Powered **vehicles** which are driven by workers on road, rail, water, or in the air, and which generally require special licensing and training for operation, will be represented by the symbol "V1" if they are very common or important, by "V2" if they are moderately common or important. Otherwise, "V" will not appear in this section.
- W** **Worker-powered mobile equipment** for which the workers supply all or most of the motive power is used in some occupations. If it is very common or important "W1" will appear and "W2" if it is moderately common or important. Otherwise "W" will not appear.

### III Functions

It could be argued that what people do in an occupation is the real crux of the work. Hence, for the sake of those who are enquiring about unfamiliar occupations, ASCO has included information about the nature of the tasks performed in each occupation. In this section three basic kinds of functions are identified and coded. They are mental activities, physical activities, and social activities. In essence we aim to provide some answers to questions such as:

What is the nature of the tasks that are performed?

What are the relative proportions of these different types of functions in occupations?

The information about typical activities in an occupation, are reported in the third section of the Job Content material and it appears in a format like this:

<i>Functions</i> _____	
<b>MA:</b> I1 A1 P1 D1 R1 M1 L1	
<b>PA:</b> S1 W2 E1	<b>SA:</b> S2 P1

The main abbreviated identifiers are:

**MA:** Mental and related activities  
**PA:** Physical activities  
**SA:** Social activities

In order of appearance, the explanation for all possible coded information in this section is as follows:

#### **MA 1 Mental and related activities (MA)**

Of the seven types of mental activities identified and coded in this section of the Job Content Factors, three are rated simply to show whether they are common or important in an occupation. The remaining four are rated by level so that counsellors and enquirers can more readily assess whether there is a match between an applicant's achievement level and the level of proficiency required for the occupation.

- I** If **integrating** or bringing together information from various sources to arrive at a new position or to form an integrated statement, understanding or position is very common or important to an occupation, the symbol "I1" will appear in the area after the identifier "MA"; if it is moderately common or important "I2" will appear. Otherwise "I" will not appear at all in this section.
- A** If **analysing** information, by determining its constituent subsets, components or contributing features is very common or important to an occupation, the symbol "A1" will appear after "MA"; if it is moderately common or important, "A2" will appear. Otherwise, "A" will not appear in this section.
- P** If **planning** events, anticipating actions and/or organizing steps in a process or sequence is very common or important to an occupation, the symbol "P1" will appear in the area after "MA"; if it is moderately common or important "P2" will appear. Otherwise, "P" will not appear in this section.
- D** If **decision-making** is a feature of an occupation, as it is for virtually all occupations, the level at which the workers operate will be indicated as follows:
- D1** will indicate that high level decision-making is involved, in which a considerable array of factors have to be taken into account, and in which a choice has to be made between several alternatives with costly outcomes.

**D2** will indicate that an intermediate level of decision-making is involved, still with several factors and outcomes involved, but the extent and cost of both the factors and the outcomes is less than for **D1**.

**D3** will indicate that a low level of decision-making is involved, with few components, few alternatives and relatively inexpensive outcomes.

**D** will not appear if the occupation involves only personal decisions of no real consequence for the work being done.

**R** If **reasoning** as in problem-solving is a feature of an occupation, it will be coded at one of the following levels:

**R1** will indicate that the principles of logical or scientific thinking are applied to a wide range of intellectual or practical problems. Non-verbal symbolism may be involved, as well as a variety of abstract and concrete variables.

**R2** will indicate that the principles of logical or scientific thinking are applied but in a less rigorous manner than for **R1**. The variables and notions involved tend to be more concrete than abstract.

**R3** will indicate that the level of reasoning is more related to solving practical problems than theoretical issues. Standard methods may be well established so that the worker carries through these routines to a solution.

**R4** will indicate that dealing with a limited number of concrete variables with limited training and experience is all that is required.

**R** will not appear at all if problem-solving cannot be considered an aspect of the occupation to any significant degree.

**M** If **mathematical** computations are a feature of an occupation, it will be coded at one of the following levels:

**M1** will indicate that advanced mathematical and/or statistical techniques such as calculus, factor analysis, probability theory, and empirical and differential equations are involved.

**M2** will indicate that arithmetic, algebraic and geometric functions are performed in standard practical applications.

**M3** will indicate that basic arithmetical functions such as counting, adding, subtracting, multiplication and division are involved, mostly with whole numbers.

**M** will not appear if numerical skills are so basic or uncommon as to be considered irrelevant.

**L** If **English language** use is a feature of an occupation it will be coded at one of the following levels:

**L1** will indicate that workers must be able to comprehend and employ complex written or verbal material such as in writing or editing articles or other documents, giving or preparing public addresses, interviewing or counselling.

**L2** will indicate that only moderately complex written or verbal material is handled, such as in writing routine correspondence, giving verbal directions or explanations to subordinate staff on non-complex issues.

**L3** will indicate that simple oral or written communications only are involved, transcribing simple material, filling out simple forms, conveying straightforward information.

**L** will not appear at all, if English language use is not important for the occupation.

### **PA 3 Physical activities (PA)**

The number and kinds of physical activities involved in occupations is extremely diverse. A Classification of occupations, such as this one, can only hope to represent this range in very general terms. Hence seven global kinds of physical activity have been identified, with an additional rating of the level of physical exertion that is typically involved.

**P** If **precision** finger or hand movements used by workers to adjust, align, shape or otherwise manipulate materials or equipment are very common or important in an occupation, "**P1**" will appear after the identifier "**PA**" in the Job Content Factors. If they are only moderately important or common "**P2**" will appear. Otherwise, "**P**" will not appear at all in this section.

**U** If **unskilled** finger or hand movements for controlling or moving equipment or objects is very common or important in an occupation, "**U1**" will appear after "**PA**", but if they are only moderately common or important, "**U2**" will appear. Otherwise, if such movements are infrequent or of minor significance, "**U**" will not appear at all in this section.

**C** If **co-ordination** of limb movements to perform actions in precise sequence or with accurate timing is very common or important to an occupation "**C1**" will appear in this section, but if it is only moderately common or important "**C2**" will appear. Otherwise, "**C**" will not appear at all.

**H** If **handling** objects or materials by carrying, throwing, dumping, placing or removing or similar activity, perhaps with limited mechanical assistance, is very common or important in an occupation, "**H1**" will appear; if moderately important "**H2**" will appear, and if insignificant or absent "**H**" will not appear at all.

**S** If **sitting** at a desk, counter, workbench or some other location is very common for workers in an occupation, "**S1**" will appear after "**PA**", or if it is only moderately common "**S2**" will appear.

**W** If **walking, standing or running** plays a very important or common role for workers in an occupation, "**W1**" will be recorded after "**PA**", or if it is only moderately common or important "**W2**" will be recorded. Otherwise "**W**" will not appear at all in this section.

**B** If **balancing or climbing** or indeed any activity where footing is precarious, is a very common or significant feature of an occupation, "**B1**" will be recorded after "**PA**", but if it is only moderately common or important, "**B2**" will appear. Otherwise "**B**" will not appear at all in this section.

**E** The level of **effort** for the physical activities above will also be indicated using the symbol "**E**" plus a digit selected

from the following rating scale: (In each case an approximate maximum force is intended, though occasionally workers may be required to exert a greater force.)

- E1** very light - such as in most secretarial work
- E2** light - up to the equivalent of lifting about 10 kilograms
- E3** moderate - up to the equivalent of lifting about 25 kilograms
- E4** heavy - up to the equivalent of lifting about 50 kilograms
- E5** very heavy - up to the equivalent of lifting in excess of 100 kilograms

#### SA 4 Social activities

Few people work in complete isolation, which means that in most occupations there are opportunities for people to interact with others. Sometimes the interaction is formalised, as in an authority relationship. ASCO Job Content Factors have tried to capture something of the social dimensions of occupations, as follows:

- A** If workers typically perform their tasks alone in isolation from others or with only minimal opportunity for social interaction with other workers or the public, "**A1**" will appear after the identifier "**SA**", but if working alone is only moderately common "**A2**" will appear. Otherwise "**A**" will not appear at all in this section.
- S** If **small groups** are the context in which workers most commonly perform their tasks, and with minor contact with the public, "**S1**" will be recorded after "**SA**". If working in a small group is moderately common "**S2**" will appear, otherwise "**S**" will not appear in this section.
- L** If **large groups** of people, workers or public, form the context in which workers are employed, "**L1**" will be recorded after "**SA**". If large numbers of people are moderately common "**L2**" will appear.
- I** If workers in an occupation have **informal interaction** with the public, as in sales, reception work or guiding tours, and this is very common or important, "**I1**" will appear. If it is moderately common or important "**I2**" will appear, otherwise "**I**" will not be recorded here at all.
- P** If **professional relationships** are found between workers in an occupation and members of the public very frequently or importantly, "**P1**" will appear here, but if these relationships are only moderately important or frequent "**P2**" will be recorded. Otherwise "**P**" is not used here.
- T** If workers in an occupation have **top level management** responsibilities, or final authority over a chain of command in a large organisation "**T**" will be recorded. "**T2**" will indicate a lesser occurrence than "**T1**".
- M** If workers in an occupation have some form of **middle management** responsibility, that is, are typically referred to as second line managers both receive orders and give them, "**M**" will be recorded. "**M2**" will indicate a lesser occurrence than "**M1**".
- B** If workers supervise **base-level** personnel with or without themselves being supervised, "**B**" will be recorded here.
- R** Finally, in this section, there is an indication of the size of the responsibility held by those in management positions. In occupations where supervision occurs, the letter "**R**" will be followed by one or more numbers to indicate the possible common range of supervisees. The numbers will be selected from:
  - 1 indicating in excess of 100 supervisees
  - 2 indicating between 21 and 100 supervisees
  - 3 indicating between 6 and 20 supervisees
  - 4 indicating between 1 and 5 supervisees
  - 0 indicating no supervisees

#### IV Context

The context in which work is performed, is universally regarded as an important feature of occupations. It can make the difference between two occupations which otherwise may be very similar, if one has a pleasant context and the other not so pleasant. Context can also make a difference to the productivity of workers. However, in ASCO, information cannot be supplied about the context in which individual workers might find themselves. Information can only be supplied about the general conditions under which occupations (as opposed to jobs) are typically performed.

The Job Content Factors chosen in this section aim to answer questions such as:

Where are workers in an occupation usually located, do they work inside or outside or both?

What hours do workers keep - is it a regular 9 to 5 occupation, or is there shiftwork, seasonal change, or unpredictable change to the usual routine?

Are there particularly hazardous or unpleasant conditions associated with the occupation?

What kind of financial reward usually goes with the occupation?

Information relevant to these questions is provided in the fourth section of the Job Content Factors. An example of an entry is:

Context	
EC: L1	TC: A1
SS: 2	SC: 4 (5y)

The main abbreviated identifiers are:

- EC: Environmental location and conditions
- TC: Time constraints
- SS: Starting salary
- SC: Salary ceiling

In order of appearance, the explanation for all possible coded information in this section is as follows:

**EC 1 Environmental location and conditions (EC)**

A variety of coding systems is used in this section because of the nature of the information being conveyed.

**T** If workers are required to travel extensively interstate, internationally or into country regions as a normal part of the occupation, "T1" will appear after the identifier "EC". "T2" indicates moderate requirement.

**M** If **mobility** for workers is important in an occupation, that is, they need to be able to travel some distance to get to and from their place of work, or need to "pursue" work opportunities from place to place, the symbol "M" will appear in this section. "M2" indicates moderately important.

**L** The **location** of work in an occupation is indicated by the letter "L" followed by a number selected from the following:

- 1 to indicate that workers spend 75% or more of their time indoors,
- 2 to indicate that workers spend 75% or more of their time outdoors,
- 3 to indicate that workers spend time both indoors and outdoors in approximately equal amounts,
- 4 to indicate that workers may spend most of their time indoors or outdoors, but generally not both. There is no fixed pattern.

**C** **Conditions** that are unpleasant or hazardous to a significant degree in an occupation will be indicated by the letter "C" in this section, followed one or more numbers to indicate the kind of irritant or danger, as follows:

- 1 will indicate extreme or highly variable temperatures
- 2 will indicate air contamination or pollution
- 3 will indicate excessive vibration
- 4 will indicate excessive noise
- 5 will indicate unusual lighting, excessive or poor
- 6 will indicate extremely dirty conditions
- 7 will indicate awkward or cramped work space
- 8 will indicate excessively damp conditions
- 9 will indicate exposed moving mechanical parts or equipment
- 10 will indicate possible risk of electrical shock or burn
- 11 will indicate the presence of radiation
- 12 will indicate dangerous footing on or above the ground
- 13 will indicate some other hazard not described above

**TC 2 Time constraints**

Every occupation is constrained in some manner by time. In some cases the time structure is regular, in others it is highly variable. In ASCO five possibilities are coded:

**A** If **regular annual** work with roughly the same time schedule day by day and week by week is the normal pattern for an occupation, "A1" will follow the identifier "TC". "A2" indicates less than normal hours are typically worked.

**S** If **seasonal** work where the annual or daily schedule is determined by weather, season or production changes, is the typical pattern for an occupation, "S1" will appear in this section. "S2" indicates a lesser effect.

**I** If **irregular hours or shiftwork** is the usual pattern for workers in an occupation, "I1" will appear. "I2" indicates some irregular hours.

**R** If **repetitive activities** of a mundane physical or mental kind in which workers have little scope for individual initiative are typical for an occupation "R1" will appear in this section. "R2" indicates some repetitive activity.

**T** If **time** deadlines exerting considerable pressure on workers is a feature of an occupation, "T1" will be recorded. "T2" indicates moderate time pressures.

**3 Rewards**

The pay received for work done is important for the vast majority of workers. It is also a very difficult and contentious kind of information to present in a classification such as this. What ASCO attempts to do, is to indicate in relative terms, the typical starting salary for workers in an occupation, the typical salary ceiling reached by workers in that occupation, and the typical time (if there is a typical period) taken to reach that salary ceiling.

**SS**

The **starting salary** (SS) and the **salary ceiling** (SC) will each be represented in the form of a broad band. The bands are based on the weekly earning deciles reported by the Australian Bureau of Statistics. The bands have been modified slightly and are as follows.

- Band
- 1 - earnings fall in the lowest 10% of weekly earnings
  - 2 - earnings fall between the 10th and 20th percentiles of weekly earnings
  - 3 - earnings fall between the 20th and 30th percentiles of weekly earnings
  - 4 - earnings fall between the 30th and 40th percentiles of weekly earnings
  - 5 - earnings fall between the 40th and 50th percentiles of weekly earnings
  - 6 - earnings fall between the 50th and 60th percentiles of weekly earnings
  - 7 - earnings fall between the 60th and 70th percentiles of weekly earnings
  - 8 - earnings fall between the 70th and 80th percentiles of weekly earnings
  - 9 - earnings fall between the 80th and 90th percentiles of weekly earnings
  - 10 - earnings fall between the 90th and 97th percentiles of weekly earnings
  - 11 - earnings fall between the 97th and 99th percentiles of weekly earnings
  - 12 - earnings fall in the top 1% of weekly earnings.

The typical number of years taken to reach the salary ceiling will be recorded in brackets after the salary ceiling band figure.

In cases where no reliable information is available, the letters "NA" for not available will appear beside the **SS** and **SC** for the relevant occupation. The letter "V" appearing beside **SS** and **SC** for the fishing and hunting occupations will indicate that "remuneration is by share of proceeds of the catch".

**V Indicators**

The final section of the Job Content Factors provides information not particularly relevant for vocational guidance but of general interest to many users of ASCO.

The intention has been to provide information about the Labour Market size of every occupation and a subsidiary indication of the proportion of workers in an occupation who are self-employed. Also, for those who wish to know the industry in which an occupation is typically found, ASCO occupations have been coded to the appropriate category of the Australian Standard Industrial Classification (ASIC).

An example of an entry at this part of the Job Content Factors is:

LMS: 600 (5% SE)	ASIC: 81
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The main abbreviated identifiers are:

**LMS:** Labour market size

**ASIC:** Industry Code

In order of appearance, the explanation for these coded entries is as follows:

**LMS 1 Labour Market Size (LMS)**

An attempt has been made to provide estimates of the number of workers in each occupation. Where this has been possible the number has been reported after the identifier "LMS". These figures are not official ABS statistics. In cases where no reliable estimate was available the letters "NA" for not available appear.

**SE** If an occupation is such that workers are **self-employed**, the percentage of these self-employed persons will be reported in parentheses after the Labour Market Size with the letters "SE" to indicate what the figure means.

**ASIC 2 Industry Code (ASIC)**

As indicated earlier, all occupations are coded to the Australia Standard Industrial Classification (ASIC). In some cases the code has had to be very specific and shows the 4 digit class within ASIC, whereas others have been coded more generally at subdivision or even division level. Yet other occupations are found in many industries and have therefore been coded simply "Many".

**VI Quick Reference Table of Identifiers**

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<b>Workers</b>	<b>FP: Formal Preparation</b>
	GE General Education
	PSP Post-School Preparation
	HD Higher Degree
	PG Post Graduate Qualification
	D Bachelors Degree
	Dip Diploma
	Adip Associate Diploma
	PPC Para-professional certificate
	T Trade or Post-Trade Qualification
	B Basic Vocational Training
	<b>IP: Informal Preparation</b>
	T On-the-Job Training
	E Experience
	<b>HC: Holland Code</b>
	R Realistic
	I Investigative
	A Artistic
	S Social
	E Enterprising
	C Conventional
	<b>RQ: Special Requirements</b>
	L Driver's Licence
	S Special Licencing or registrations
	P Personal Dedication
	Q Individual Quality
	U Updating Knowledge
	D Dress
	V Visual Requirement
	A Auditory Requirement

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<b>Materials</b>	<b>SM: Subject Matter</b>
	D Data
	I Ideas
	P People
	T Things
	<b>EQ: Equipment Used</b>
	P Precision Tools
	S Semi-Precision Tools
	N Non-Precision Tools
	M Machines
	K Keyboard Devices
	V Vehicles
	W Worker-Powered Mobile Equipment

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Functions	<b>MA: Mental Activities</b>
	I Integrating A Analysing P Planning D Decision-Making R Reasoning M Mathematical Computation L English Language
	<b>PA: Physical Activities</b>
	P Precision Finger or Hand U Unskilled Finger or Hand C Co-ordination of Limbs H Handling S Sitting W Walking, Standing or Running B Balancing or Climbing E Level of Effort
	<b>SA: Social Activities</b>
	A Working Alone S Working in Small Groups L Working in Large Groups I Informal Interaction with Public P Professional Relationships T Top Level Management M Middle Level Management B Base Level Management R Size of Responsibility

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Context	<b>EC: Environmental Conditions</b>
	T Travel M Mobility L Location C Conditions
	<b>TC: Time Constraints</b>
	A Regular Annual Work S Seasonal Work I Irregular Hours or Shiftwork R Repetitive Activities T Time Pressure
	<b>SS: Starting Salary</b>
	<b>SC: Salary Ceiling</b>

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**Indicators**

**LMS: Labour Market Size**  
**SE: Self-employed**  
**ASIC: Industrial Code as in ASIC**

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<sup>1</sup>Prediger, D.J. Getting "ideas" out of the DOT and into vocational guidance. *Vocational Guidance Quarterly*, 1981, 29, 293-305.

# APPENDIX III

## ALPHABETICAL LIST OF OCCUPATIONAL TITLES

Code A	Code B	TITLE	Code A	Code B	TITLE
<b>A</b>					
6201-A	0713-0701	A Grade Wood Machinist	4297-Z	0713-2999	Accordion Repairer (sp)
5100-I	0311-9903	Abalone Diver (Master Fisherman/woman)	1030-A	0213-0101	Accountant (General)
5101-H	1101-3501	Abalone Sheller (a)	1030-Z	*	Accountants and Auditors nec
6510-A	0105-1107	Abattoir Supervisor (a)	1021	0103-0300	Accounting Controller (sp)
7013-A	1101-3501	Able Bodied Seaman/woman (sp)	4021-A	0405-0101	Accounting Machine Operator (a)
7013-A	1101-3501	Able Seaman/woman (sp)	4021-A	0405-0101	Accounting Machinist
2303-Z	0207-0799	Aboriginal Education Teacher (sp)	1021	0103-0300	Accounting Manager (sp)
4219-Z	0601-9901	Aboriginal Police Aide (sp)	1030-C	0213-0105	Accounting Officer (Finance) (a)
2111-C	0211-0305	Aboriginal Rehabilitation Counsellor (sp)	1030-A	0213-0101	Accounting Officer (a)
2119-D	0311-0107	Aboriginal Welfare Officer (sp)	4010-A	0105-0305	Accounting Supervisor (a)
6302-M	1005-2107	Absorption Operator, Acid Plant (a)	4011-D	0403-0107	Accounts Clerk
6302-A	1005-2107	Absorption Operator (sp)	4011-D	0403-0107	Accounts Payable Clerk (sp)
1020	0103-0100	Academic Registrar (sp)	4011-D	0403-0107	Accounts Receivable Clerk (sp)
2327-E	*	Academic Research Assistant, Architecture, Building and Related Fields	6392-A	0905-0701	Acetylene Plant Operator
2327-M	*	Academic Research Assistant, Artistic, Literary and Sporting Fields	6302-M	1005-2129	Acid Plant Operator
2327-K	0205-0503	Academic Research Assistant, Dentistry	6302-A	1005-2107	Acidising Operator (sp)
2327-I	0217-0901	Academic Research Assistant, Education	5330-C	0105-1501	Acidising and Formation Fracturing Supervisor
2327-D	0203-1999	Academic Research Assistant, Engineering	6341-C	1005-1305	Acidman/woman (a)
2327-G	0217-9905	Academic Research Assistant, Humanities	2209-Z	1201-0199	Acolyte (sp)
2327-A	0217-9905	Academic Research Assistant, Management, Administration and Related Fields	2002-Z	0201-0501	Acoustics Physicist (sp)
2327-Z	0217-9905	Academic Research Assistant, Maritime Studies (sp)	3022-B	1203-0303	Acrobat (sp)
2327-C	*	Academic Research Assistant, Mathematical and Computer Sciences	3021-A	1203-0101	Actor
2327-J	0201-1399	Academic Research Assistant, Medical Sciences	3021-Z	*	Actors nec
2327-B	0201-9999	Academic Research Assistant, Natural and Applied Sciences	4014-A	0403-0701	Actuarial Clerk
2327-L	*	Academic Research Assistant, Paramedical Sciences	2020-C	0217-0705	Actuary
2327-H	0217-0599	Academic Research Assistant, Religious Studies	2409-B	0205-9999	Acupuncturist (sp)
2327-F	0217-0599	Academic Research Assistant, Social Sciences	4021-Z	0405-0199	Adding Machine Operator (sp)
2327-Z	0217-9905	Academic Research Assistant, Strategic Studies (sp)	6504-A	1013-1199	Additive Mix Operator (sp)
2327-Z	*	Academic Research Assistants nec	4021-Z	0405-0199	Address Labelling Machine Tender (sp)
2326-Z	*	Academic Teachers and Researchers, Artistic and Literary Fields (Higher Education) nec	1021	0103-0300	Administration Director (sp)
2324-Z	*	Academic Teachers and Researchers, Education (Higher Education) nec	1021	0103-0300	Administration Manager (sp)
2322-Z	*	Academic Teachers and Researchers, Engineering, Data Processing and Architecture (Higher Education) nec	1039-H	0213-9911	Administrative Assistant (a)
2320-Z	*	Academic Teachers and Researchers, Management and Administration (Higher Education) nec	1039-H	0213-9911	Administrative Officer
2325-Z	*	Academic Teachers and Researchers, Medicine and Health (Higher Education) nec	1039-H	0213-9911	Administrative Officer (Educational Institution) (sp)
2321-Z	*	Academic Teachers and Researchers, Natural and Applied Science (Higher Education) nec	1039-H	0213-9911	Administrative Officer (Hospital) (sp)
2323-Z	*	Academic Teachers and Researchers, Social Sciences and Humanities (Higher Education) nec	3039-A	0611-9919	Administrator, Sport Centre (a)
2002-D	0201-0507	Accelerator Physicist (sp)	2403-B	0713-3501	Advanced Dental Technician (sp)
4222-F	0601-0927	Accident Prevention Officer, Insurance	3019-A	0215-0511	Advertising Copy-Writer (a)
3023-C	1203-0505	Accompanist (sp)	1022	0103-0500	Advertising Manager (sp)
			1033-A	0213-9901	Advertising Officer (a)
			2010-A	0201-0701	Advisory Officer, Agriculture (a)
			2330-A	0217-0903	Advisory Teacher (a)
			7001-Z	0307-0199	Aerial Crop Sprayer (sp)
			3000-B	0215-0103	Aerial Photographer (sp)
			2005-C	0303-0105	Aerial Survey Operator (sp)
			2045-A	0203-1901	Aeronautical Engineer
			6393-B	1005-1703	Aerosol Can Filler (sp)
			4263-A	0607-0101	Aesthetician (Esthetician) (a)
			2000-C	0201-0105	Agricultural Chemist
			2100-C	0217-0105	Agricultural Economist
			3010-A	0215-0501	Agricultural Editor (sp)
			2045-B	0203-1903	Agricultural Engineer
			6071-B	1015-0103	Agricultural Equipment Inspector (sp)
			2010-A	0201-0701	Agricultural Extension Officer

Code A	Code B	TITLE	Code A	Code B	TITLE
2015-A	0303-0301	Agricultural Field Technician	6002-Z	0909-0399	Alloy Attendant (sp)
7001-Z	0307-0199	Agricultural Pilot (sp)	5343-J	1001-0319	Alluvial Separation Plant Operator
3010-C	0215-0507	Agricultural Reporter (sp)	5001-A	0803-0101	Almond Grower (sp)
2010-B	0201-0703	Agricultural Scientist	5349-B	1001-0503	Amalgamator Operator
2010-Z	*	Agricultural Scientists nec	1009-Z	0101-0305	Ambassador (sp)
2014-A	0301-0301	Agricultural Technical Officer (a)	1009-Z	0101-0303	Ambassador or High Commissioner (sp)
2001-C	0201-0305	Agrometeorologist (sp)	2419-A	0609-0501	Ambulance Officer
2010-E	0201-0709	Agronomist (Field Crops) (sp)	5029-Z	*	Amenity Horticultural Occupations nec
2010-E	0201-0709	Agrostologist (Pasture Grasses) (sp)	6392-C	0905-0705	Ammonia Gas Liquefier (sp)
4294-B	0611-0703	Air Hostess/Flight Steward (a)	2040-B	0203-0703	Ammonia Production Engineer (sp)
7001-Z	*	Air Pilots and Flight Instructors nec	6331-H	1005-0915	Ampoule Filler
2009-A	0201-9901	Air Pollution Analyst (sp)	2403-Z	0311-0599	Anaesthetic Technician (sp)
2045-A	0203-1901	Air Safety Engineer (sp)	2401-A	0205-0301	Anaesthetist
5302-C	0909-0711	Air Track Operator (a)	2000-D	0201-0107	Analytical Chemist
7002-A	0307-0501	Air Traffic Controller	2012-A	0201-1101	Anatomist
7009-Z	0307-0599	Air Traffic Controller-in-Training (sp)	5324-D	0909-1105	Anfo Truck Driver (sp)
7009-Z	*	Air Transport Operating Occupations nec	5019-E	1101-9903	Animal Attendant
7002-Z	*	Air Transport Operating Support Occupations nec	2012-M	0201-1125	Animal Ecologist (sp)
2046-J	0203-1303	Air-Conditioning Draftsman/woman (sp)	2010-C	0201-0705	Animal Geneticist (sp)
6105-B	0703-0703	Air-Conditioning Installation Mechanic (sp)	4221-A	0601-0905	Animal Health Officer (sp)
6105-B	0703-0703	Air-Conditioning Mechanic	2015-B	0303-0303	Animal House Technician (sp)
9005-D	0905-0507	Air-Conditioning Operator	2019-A	0303-0309	Animal Nurse (a)
2043-B	9907-9903	Air-Conditioning Project Engineer (sp)	2019-A	0303-0309	Animal Nursing Technician (a)
6105-B	0703-0703	Air-Conditioning Service Mechanic (sp)	2010-C	0201-0705	Animal Nutritionist (sp)
3000-A	0215-0101	Airbrush Artist (sp)	2012-M	0201-1125	Animal Physiologist (sp)
7001-A	0307-0101	Aircraft Captain (sp)	2010-C	0201-0705	Animal Scientist
2047-Z	0305-9999	Aircraft Detail Draftsman/woman (sp)	6514-A	1013-1301	Animal Skinner (sp)
6103-B	0703-0903	Aircraft Electrical Mechanic	2012-M	0201-1125	Animal Taxonomist (sp)
2046-C	0301-0505	Aircraft Electronics Technical Officer (sp)	2015-B	0303-0303	Animal Technician
6051-A	0701-2101	Aircraft Engine Fitter (a)	5012-A	0899-0999	Animal Trainer
6051-D	0701-2505	Aircraft Engine Inspector (sp)	9013-Z	0311-0999	Animation Camera Operator (sp)
6051-C	0701-2105	Aircraft Engineer, Line Maintenance	3001-B	0215-0303	Animator (sp)
6051-B	0701-2103	Aircraft Ground Engineer, Airframes	5001-B	0803-0103	Anisced Grower (sp)
6051-A	0701-2101	Aircraft Ground Engineer, Engines	6014-B	1003-0503	Annealer
6051-D	0701-2505	Aircraft Hydraulics Inspector (sp)	3027-A	1203-1101	Announcer
6051-D	0701-2505	Aircraft Inspector	6082-A	0909-0319	Anode Press Operator (sp)
7191-A	1101-0305	Aircraft Loader	6082-C	1003-1105	Anodiser (sp)
6022-A	0701-0701	Aircraft Machinist (sp)	2042-B	0203-1103	Antennae Engineer (sp)
2045-A	0203-1901	Aircraft Maintenance Engineer (sp)	2109-A	0217-0503	Anthropologist
6051-B	0701-2103	Aircraft Maintenance Engineer, Airframes (sp)	6211-E	0713-0903	Antique Chair Reproducer (sp)
6051-A	0701-2101	Aircraft Maintenance Engineer, Engines (a)	5000-M	0899-0101	Apiarist
6051-B	0701-2103	Aircraft Mechanic, Airframes (a)	5014-D	1101-3107	Apiary Assistant
6051-A	0701-2101	Aircraft Mechanic, Engines (a)	5000-M	0899-0101	Apiculturist (a)
7002-Z	0307-9905	Aircraft Navigator (sp)	5001-A	0803-0101	Apple Grower (sp)
6032-A	0701-1501	Aircraft Patternmaker (Loftsmen/woman) (sp)	8030-B	1101-3103	Apple Picker (sp)
6032-B	0701-1503	Aircraft Sheet Metal Worker (sp)	2042-C	0203-1105	Appliances Engineer (sp)
6054-A	0709-0501	Aircraft Spray Painter (sp)	2030-A	0213-0701	Applications Programmer (sp)
6055-A	0709-0901	Aircraft Trimmer (sp)	2020-B	0217-0703	Applied Mathematician (Research) (sp)
2045-A	0203-1901	Airframe Engineer (sp)	2002-Z	0201-0501	Applied Physicist (sp)
6051-B	0701-2103	Airframe Fitter (a)	2020-D	0217-0707	Applied Statistician
6051-D	0701-2505	Airframe Inspector (sp)	4051-A	0411-0101	Appointment Clerk (a)
6051-B	0701-2103	Airframe Mechanic (a)	4299-G	0501-9907	Appraiser (a)
6015-C	0701-0303	Airframe Polisher (sp)	6056-B	0701-3303	Apprentice Aircraft Ground Engineer, Airframes
2046-Z	0301-0599	Airframe Technical Officer (sp)	6056-A	0701-3301	Apprentice Aircraft Ground Engineer, Engines
7001-A	0307-0101	Airline Pilot	6025-B	0701-3101	Apprentice Aircraft Machinist (sp)
7191-A	1101-0305	Airline Porter (a)	6106-F	0703-2103	Apprentice Aircraft Mechanic (Electrical)
4214-A	0601-0301	Airport Fire-Fighter	6106-D	0703-2301	Apprentice Automotive Electrician
7000-A	0307-0301	Airway Surveyor, Air (sp)	6025-B	0701-3101	Apprentice Automotive Machinist (sp)
7000-A	0307-0301	Airway Surveyor, Ground (sp)	6522-B	0711-1703	Apprentice Baker
7000-A	0307-0301	Airways Surveyor	6616-C	0713-5105	Apprentice Bedding and Mattress Maker
2045-A	0203-1901	Airworthiness Engineer (sp)	6722-A	0707-2101	Apprentice Binder and Finisher
7009-B	0307-9903	Airworthiness Surveyor	6041-A	0701-3501	Apprentice Blacksmith
6119-A	0703-1505	Alarms Installer (sp)	6056-H	0709-1701	Apprentice Body Maker
2401-Z	0205-0399	Allergist (sp)	6041-F	0701-3903	Apprentice Boilermaker (a)
2419-Z	0609-0599	Allied Health Assistant (sp)	6056-D	0709-1103	Apprentice Brake Mechanic
			6522-B	0711-1703	Apprentice Bread Maker (a)

Code A	Code B	TITLE	Code A	Code B	TITLE
6818-A	0705-1901	Apprentice Bricklayer	6818-D	0705-2101	Apprentice Paperhanger (sp)
6818-B	0705-1701	Apprentice Bridge and Wharf Carpenter (sp)	6522-A	0711-1701	Apprentice Pastrycook
6512-A	0711-1501	Apprentice Butcher	6007-B	0701-2703	Apprentice Patternmaker, Metal Casting
6532-A	0711-1901	Apprentice Buttermaker	6214-E	0713-4505	Apprentice Picture Framer
6214-C	0713-4501	Apprentice Cabinet-Maker	6818-E	0705-2301	Apprentice Plasterer
6214-G	0713-4509	Apprentice Cane Furniture Maker	6818-F	0705-2501	Apprentice Plumber
6818-B	0705-1701	Apprentice Carpenter (a)	6818-F	0705-2501	Apprentice Plumber, Drainer and Gasfitter (sp)
6818-B	0705-1701	Apprentice Carpenter and Joiner	6106-A	0703-1701	Apprentice Power Linesman/woman
6818-C	0713-6301	Apprentice Carpet Cutter, Planner and Layer (sp)	6064-A	0701-4501	Apprentice Precision Instrument Maker
6818-C	0713-6301	Apprentice Carpet Layer	6715-A	0707-1901	Apprentice Printing Machinist
6818-C	0713-6301	Apprentice Carpet Planner (sp)	6113-A	0703-2901	Apprentice Radio Mechanic
6818-C	0713-6301	Apprentice Carpet and Lino Layer (sp)	6113-A	0703-2901	Apprentice Radio and Television Mechanic
6522-C	0711-1705	Apprentice Cereal Miller	6113-A	0703-2901	Apprentice Radio and Television Servicer (a)
6532-B	0711-1903	Apprentice Cheesemaker	6106-E	0703-2501	Apprentice Refrigeration Mechanic/Fitter
4232-A	0711-2101	Apprentice Chef	6106-E	0703-2501	Apprentice Refrigeration Service Mechanic/Fitter (a)
6704-A	0707-1701	Apprentice Composer	6818-G	0705-2701	Apprentice Roof Slater (sp)
6502-A	0711-1301	Apprentice Confectioner	6818-G	0705-2701	Apprentice Roof Slater and Tiler
4232-A	0711-2101	Apprentice Cook	6818-G	0705-2701	Apprentice Roof Tiler (sp)
6214-F	0713-4507	Apprentice Cooper	6064-E	0701-4509	Apprentice Saw Maker and Repairer
6041-D	0701-3703	Apprentice Coppersmith	6722-C	0707-2501	Apprentice Screen Printing Stencil Preparer
2403-Z	0713-5901	Apprentice Dental Technician	6041-C	0701-3701	Apprentice Sheet Metal Worker
6064-F	0713-4701	Apprentice Diamond Cutter	*	0713-5501	Apprentice Shipwright
6818-F	0705-2501	Apprentice Drainer (sp)	6041-G	0713-5501	Apprentice Shipwright, Metal
4253-A	0713-6101	Apprentice Dry-Cleaner	6214-B	0713-5501	Apprentice Shipwright, Wood
6106-B	0703-1901	Apprentice Electrical Fitter	6622-A	0713-5107	Apprentice Shoemaker
6106-C	0703-2101	Apprentice Electrical Mechanic	6818-H	0705-2103	Apprentice Signwriter
6017-A	0701-2901	Apprentice Electroplater	6064-H	0713-4901	Apprentice Silversmith
6041-B	0701-3503	Apprentice Farrier	6064-I	0713-4903	Apprentice Silverware Polisher
6818-E	0705-2301	Apprentice Fibrous Plasterer (sp)	6512-C	0711-1505	Apprentice Slaughterman/woman
6818-E	0705-2301	Apprentice Fibrous Plasterer and Gypsum Plasterboard Fixer (sp)	6512-B	0711-1503	Apprentice Smallgoods Maker
6025-B	0701-3101	Apprentice Fitter-Machinist	6818-E	0705-2301	Apprentice Solid Plasterer (sp)
6414-A	0713-4101	Apprentice Flat Glass Tradesperson	6056-F	0709-1501	Apprentice Spray Painter (Vehicle) (a)
6214-H	0713-4511	Apprentice Furniture Finisher	6722-B	0707-2301	Apprentice Stereotyper and/or Electrotyper
5022-B	0713-5703	Apprentice Gardener	6402-A	0705-3101	Apprentice Stone Polisher (sp)
6818-F	0705-2501	Apprentice Gasfitter (sp)	6402-A	0705-3101	Apprentice Stonemason
6818-F	0705-2501	Apprentice Gasfitter and Leadburner (sp)	6041-F	0701-3905	Apprentice Structural Steel Tradesperson (sp)
6414-B	0713-4103	Apprentice Glass Bender	6616-A	0713-5101	Apprentice Tailor
6704-B	0707-1703	Apprentice Graphic Reproducer	*	0703-2799	Apprentice Telegraph Mechanic
5022-C	0713-5705	Apprentice Greenkeeper	6113-A	0703-2901	Apprentice Television Mechanic
4262-B	0713-5303	Apprentice Hairdresser, Gentlemen's	6602-C	0701-4305	Apprentice Textile Mechanic, Knitting
4262-A	0713-5301	Apprentice Hairdresser, Ladies'	6602-A	0701-4301	Apprentice Textile Mechanic, Spinning
6064-G	0713-4703	Apprentice Jewellery Maker and Repairer	6602-D	0701-4307	Apprentice Textile Mechanic, Tufting
6007-A	0701-2701	Apprentice Jobbing Moulder-Coremaker	6602-B	0701-4303	Apprentice Textile Mechanic, Weaving
6214-A	0705-1703	Apprentice Joiner	6025-A	0701-3103	Apprentice Toolmaker
5022-D	0713-5707	Apprentice Landscape Gardener	6056-G	0709-1901	Apprentice Trimmer (Vehicle) (a)
6818-F	0705-2501	Apprentice Leadburner (sp)	6818-A	0705-1901	Apprentice Tuckpointer (sp)
6114-A	0703-2703	Apprentice Lineman/woman, Telecommunications	6616-B	0713-5103	Apprentice Upholsterer
6064-D	0701-4507	Apprentice Locksmith	6056-H	0709-1701	Apprentice Vehicle Body Builder (a)
6402-A	0705-3101	Apprentice Machinist, Stonemasonry (sp)	6056-F	0709-1501	Apprentice Vehicle Painter
6041-F	0701-3903	Apprentice Metal Fabricator	6056-G	0709-1901	Apprentice Vehicle Trimmer
6017-B	0701-2903	Apprentice Metal Polisher	6818-I	0705-2901	Apprentice Wall and Floor Tile Layer
6041-H	0701-4101	Apprentice Metal Spinner	6064-C	0701-4505	Apprentice Watch and Clock Repairer
6522-C	0711-1705	Apprentice Miller (Flour) (sp)	4239-Z	0711-2301	Apprentice Waiter/Waitress
6522-C	0711-1705	Apprentice Miller (Rice)(sp)	6041-E	0701-3901	Apprentice Welder
6522-C	0711-1705	Apprentice Miller (Starch) (sp)	6214-D	0713-4503	Apprentice Wood Carver
6522-C	0711-1705	Apprentice Miller (Stockfeed) (sp)	6207-A	0713-4303	Apprentice Wood Machinist
6402-A	0705-3101	Apprentice Monumental Mason (sp)	6007-B	0713-4301	Apprentice Wood Patternmaker
6056-C	0709-1101	Apprentice Motor Mechanic	6207-B	0713-4305	Apprentice Wood Turner
5022-A	0713-5701	Apprentice Nursery Man/Woman	6025-B	0701-3101	Apprentice, Fitting and Turning (a)
6064-B	0701-4503	Apprentice Office Mechanical Equipment Serviceman/woman	5022-B	0713-5703	Apprentice, Flower Growing (sp)
6818-D	0705-2101	Apprentice Painter (sp)	5002-A	0899-0301	Apprentice, Fruit Growing (sp)
6818-D	0705-2101	Apprentice Painter and Decorator	5022-A	0713-5701	Apprentice, Fruit and Vegetable Seedling Propagation (sp)
6818-D	0705-2101	Apprentice Painter and Signwriter (sp)	5022-B	0713-5703	Apprentice, Gardens and Parks (sp)
6056-E	0709-1301	Apprentice Panel Beater	5022-B	0713-5703	Apprentice, Ornamental Tree, Shrub and Perennial Cultivation (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
5022-B	0713-5703	Apprentice, Rose and/or Fruit Tree Cultivation (sp)	3002-C	0311-0705	Assembly Artist (a)
6025-B	0701-3101	Apprentice, Turning and Other Machining (a)	4223-Z	0601-0999	Assessor, Tax (sp)
5001-A	0803-0101	Apricot Grower (sp)	6303-B	1005-2301	Assistant Acid Plant Operator (sp)
8030-B	1101-3103	Apricot Picker (sp)	6333-A	1005-1107	Assistant Ampoule Filler (sp)
6406-C	1009-0321	Apron Feeder, Clay (sp)	6333-A	1005-1107	Assistant Autoclave Operator (Chemicals) (sp)
5109-Z	1101-3799	Aquarium Fish Collector (sp)	6523-B	0715-1305	Assistant Baker
2012-B	0201-1103	Aquatic Biologist	6303-B	1005-2301	Assistant Batch Still Operator (Chemicals) (sp)
2014-B	0301-0303	Aquatic Biology Technical Officer (sp)	9009-A	0905-1301	Assistant Boiler Attendant
4222-C	0601-0917	Arbitration Inspector	6343-A	1005-1311	Assistant Bullet Maker (sp)
5029-A	0715-2701	Arboriculturist (sp)	6534-A	1013-1507	Assistant Cheesemaker (sp)
6811-A	0705-0301	Arch Builder (sp)	6303-B	1005-2301	Assistant Chemical Process Operator, Batching (sp)
2109-Z	0217-0599	Archaeologist (sp)	6303-B	1005-2301	Assistant Chemical Process Unit Operator (a)
2050-A	0203-0101	Architect	4211-B	0105-0711	Assistant Chief Fire Officer (a)
2053-B	0301-0701	Architectural Draftsman/woman (a)	4211-B	0105-0711	Assistant Chief Officer, Fire Prevention Department (sp)
2053-A	0301-0701	Architectural Technical Officer (a)	4211-B	0105-0711	Assistant Chief Officer, Metropolitan Fire District (sp)
2059-Z	0499-9921	Architectural Tracer (sp)	6303-B	1005-2301	Assistant Chlorination Plant Operator (Chemicals) (sp)
2050-Z	*	Architecture Occupations nec	5324-A	0909-1301	Assistant Coal Overburden Driller (sp)
2053-Z	*	Architecture, Building and Surveying Drafting and Other Technical Officers nec	6303-B	1005-2301	Assistant Compounder (Chemicals) (sp)
2059-Z	*	Architecture, Building and Surveying Occupations nec	4231-C	0711-0901	Assistant Cook, Marine (sp)
2139-A	0217-9903	Archivist	1020	0103-0100	Assistant Dean (Educational Institution) (sp)
9001-A	0105-1313	Area Controller, Generation (a)	6303-B	1005-2301	Assistant Distillation Operator (Chemicals) (sp)
1020	0103-0100	Area Manager (sp)	5334-Z	0909-1115	Assistant Driller (Fluids Drilling) (sp)
4222-E	0601-0925	Area/Territory Manager, Service Stations (a)	3010-A	0215-0501	Assistant Editor
4222-E	0601-0925	Area/Territory Supervisor, Service Stations	7021-B	0901-0901	Assistant Engine Driver (a)
6035-A	1003-0901	Argon-Arc Welder (sp)	7021-B	0901-0901	Assistant Engineman/woman (a)
6035-A	1003-0901	Argon-Arc Welding Machine Operator (sp)	6333-C	1005-1107	Assistant Fermenter, Antibiotics
6102-B	0703-0303	Armature Winder (sp)	6303-B	1005-2301	Assistant Filter Press Operator (Chemicals) (sp)
4217-B	0601-1103	Armoured Car Driver (sp)	5209-A	1101-3303	Assistant Forester (a)
4217-B	0601-1103	Armoured Car Driver/Escort	6343-A	1005-1311	Assistant Fuse Maker (sp)
4217-B	0601-1103	Armoured Car Escort (sp)	6604-C	1011-0107	Assistant Ginner (sp)
4030-B	0105-0319	Armoured Car Service Supervisor (sp)	6333-A	1005-1107	Assistant Granulator Machine Operator (sp)
6062-C	0715-0501	Armourer (a)	6303-B	1005-2301	Assistant Kettle Operator (Chemicals) (sp)
2330-A	0217-0903	Art Advisory Teacher (sp)	6399-E	1099-9905	Assistant Linoleum Maker (sp)
3010-C	0215-0507	Art Critic (sp)	7021-B	0901-0901	Assistant Locomotive Driver (a)
1023	0103-0700	Art Director (Publishing and Advertising) (sp)	6714-A	0715-3301	Assistant Machinist, Newspaper Press
3020-A	0215-0901	Art Director (Television, Films and Stage)	6303-B	1005-2301	Assistant Make-up Plant Operator (Chemicals) (sp)
6606-A	1011-0515	Art Dyer (sp)	6303-B	1005-2301	Assistant Mixer (Chemicals) (sp)
3010-A	0215-0501	Art Editor (sp)	6343-A	1005-1311	Assistant Mixer Operator, Explosives (sp)
2302-B	0207-0501	Art Master/Mistress (sp)	6343-A	1005-1311	Assistant Nitrocellulose Maker (sp)
5001-B	0803-0103	Artichoke Grower (sp)	6729-Z	0715-3303	Assistant Offset Lithographic Printing Machinist
*	0209-0701	Art Teacher, nec	6523-A	0715-1303	Assistant Pastrycook
2129-A	0211-0901	Articled Clerk	6303-B	1005-2301	Assistant Pilot Plant Operator (Chemicals) (sp)
7030-A	0901-0101	Articulated Bus Driver (sp)	6352-D	0909-1117	Assistant Plant Operator (Oil Terminal)
7039-A	0209-0711	Articulated Vehicle Driving Instructor/Instructress (sp)	6343-A	1005-1311	Assistant Plant Operator, Explosives Production
5019-A	0899-9901	Artificial Breeding Technician (a)	6303-B	1005-2301	Assistant Plant Operator, General Chemical Processing
3002-Z	1005-0399	Artificial Flower Maker (sp)	6352-B	0905-1305	Assistant Plant Operator, Grease Manufacture
5019-A	0899-9901	Artificial Insemination Operator (a)	6352-A	0905-1303	Assistant Plant Operator, Petroleum Process Units
5019-A	0899-9901	Artificial Insemination Operator, Cattle (sp)	6333-A	1005-1107	Assistant Plant Operator, Pharmaceuticals and Toiletries Products
5019-A	0899-9901	Artificial Insemination Technician	6352-C	0909-1113	Assistant Plant Operator, Pumping, Blending and Shipping (Petroleum Products)
5019-A	0899-9901	Artificial Inseminator (Farm Animals) (a)	6343-A	1005-1311	Assistant Powder Blender, Explosives (sp)
3000-A	0215-0101	Artist	1020	0103-0100	Assistant Principal (Educational Institution) (sp)
6892-A	1101-1109	Asbestos (Fibre-Cement) Fence Contractor/Erector (sp)	4099-B	0499-9911	Assistant Proof-Reader (sp)
5001-B	0803-0103	Asparagus Grower (sp)	6303-B	1005-2301	Assistant Recovery Plant Operator (sp)
6802-A	0903-0701	Asphalt Paving Machine Operator (a)	1020	0103-0100	Assistant Registrar (Educational Institution) (sp)
8000-D	1101-1501	Asphalt Worker, Construction (sp)	6012-A	1003-0103	Assistant Roller (a)
2000-D	0201-0107	Assayer (sp)	1010-B	0103-1900	Assistant Secretary (Government Department) (sp)
4259-B	1101-2703	Assembler (Laundry) (sp)	5324-D	0909-1105	Assistant Shot-Firer
2030-A	0213-0701	Assembler Programmer (sp)			
6191-B	1003-1109	Assembler, Electrical and Electronic Equipment (a)			
6082-E	1003-1107	Assembler, Metal and Metal Products (a)			
6213-Z	*	Assemblers, Wood Products nec			

Code A	Code B	TITLE	Code A	Code B	TITLE
6399-E	1099-9907	Assistant Soap Maker (sp)	4139-A	0505-9901	Auctioneer, Furniture (sp)
6303-B	1005-2301	Assistant Solutions Plant Operator (sp)	4139-A	0505-9901	Auctioneer, Livestock (sp)
7020-B	0105-0335	Assistant Station Master/Mistress (a)	4139-A	0505-9901	Auctioneer, Real Estate (sp)
6333-B	1005-1107	Assistant Sterile Products Processer	4139-A	0505-9901	Auctioneer, Wool (sp)
4295-A	0611-0901	Assistant Steward (Marine) (sp)	4002-A	0401-0301	Audio Typist (a)
7121-B	1101-0509	Assistant Storeman/woman (a)	2330-A	0217-0903	Audio-Visual Officer (sp)
6333-A	1005-1107	Assistant Tablet Coating Machine Operator (sp)	2404-A	0205-9901	Audiologist
6333-A	1005-1107	Assistant Tablet Making Machine Operator (sp)	2419-B	0311-0507	Audiometrist
6190-B	0715-0903	Assistant Technician (Telecommunication)	4011-C	0403-0105	Audit Clerk
1021	0103-0300	Assistant Treasurer (sp)	6416-A	1015-0125	Audit Verifier, Glassware (sp)
5310-A	0105-1311	Assistant Undermanager, Underground Coal Mine (sp)	1030-D	0213-0107	Auditor
6303-B	1005-2301	Assistant Vacuum Pan Operator (Chemicals) (sp)	2109-C	0217-0507	Australian Historian (sp)
6399-E	0905-1307	Assistant Waste Water Treatment Plant Operator (sp)	3011-A	0215-0701	Author
7020-Z	0105-1301	Assistant Yard Master/Mistress (sp)	5029-B	0903-0903	Auto Scythe Operator (sp)
8020-L	1101-2923	Assistant, Corrugated Machine (sp)	6331-D	1005-0907	Autoclave Operator (Chemicals)
6303-A	1015-0113	Assistant, Inspecting and Testing (Chemicals)	6504-C	1013-1105	Autoclave Operator (Food Processing) (a)
6399-E	1005-2301	Assistant, Other Chemical Processing Occupations	6406-C	1009-0321	Automatic Brick Setting Machine Operator (sp)
6303-A	1015-0113	Assistant, Pharmaceuticals and Toiletries Inspecting (sp)	9019-A	0405-0309	Automatic Data-Transceiver Operator
8020-L	1101-2923	Assistant, Screen Printing Machine (sp)	7122-D	1017-0113	Automatic Palletiser/Depalletiser Operator
5324-Z	*	Assistants and Trainees, Open Cut Mining nec	6201-A	0713-0701	Automatic Profile Sander Operator (sp)
3010-A	0215-0501	Associate Editor	6202-B	0715-1703	Automatic Wood Turning Lathe Operator
2002-B	0201-0503	Astronomer	7039-A	0209-0711	Automobile Driving Instructor/Instructress (sp)
2002-B	0201-0503	Astronomer, Celestial Mechanisms (sp)	6071-A	1015-0105	Automobile Inspector
2002-B	0201-0503	Astrophysicist (sp)	6052-A	0709-0101	Automotive Air-Conditioning Mechanic (sp)
2001-C	0201-0305	Atmospheric Physicist (a)	6104-A	0703-0501	Automotive Electrician
2002-C	0201-0505	Atomic Physicist	6022-A	0701-0701	Automotive Machinist (sp)
4293-C	0611-0505	Attendant, Sporting	2043-E	0203-1309	Automotive Production Engineer (sp)
4139-B	0505-9903	Auction Room Attendant	2414-B	0609-0399	Auxiliary Nurse (a)
4139-A	0505-9901	Auctioneer	9002-A	0905-1309	Auxiliary Plant Attendant
			6051-D	0701-2505	Avionics Inspector (sp)
			5001-A	0803-0101	Avocado Grower (sp)
			6892-B	1101-1107	Awnings Installer (sp)
			6022-A	0709-0999	Axle Maker

B

6202-A	0715-1701	B Grade Wood Machinist	1021	0103-0100	Bank Manager (sp)
4291-Z	0609-0199	Baby Sitter (sp)	4012-B	0403-0303	Bank Officer
5309-B	0909-0115	Back Fill Operator (a)	4012-A	0403-0301	Bank Teller
6801-F	0903-0111	Back-Hoe Operator	4012-Z	*	Bank Tellers and Clerks nec
6514-A	1013-1301	Backer (sp)	6401-A	0705-1501	Banker Mason (a)
3002-Z	0311-0799	Background-and-Title Artist (sp)	4234-A	0603-0301	Bar Attendant
6511-C	0711-0305	Bacon Curer (sp)	4230-G	0105-0909	Bar Manager (a)
2012-I	0201-1117	Bacteriologist (sp)	4261-B	0713-2503	Barber (a)
4011-Z	0499-0103	Bad-Debts Clerk	7019-A	0307-9907	Barge Engineer Officer (sp)
6524-Z	1013-0999	Bagasse Loft Operator (Sugar Milling) (sp)	7013-A	1101-3501	Barge Hand (sp)
6604-C	1011-0107	Bagger (sp)	7013-A	1101-3501	Bargeman/woman (sp)
2129-D	0499-0903	Bailiff	3023-B	1203-0503	Baritone (sp)
6521-B	0711-0503	Baker	5219-Z	1101-3399	Bark Stripper (sp)
6520-A	0105-1107	Bakery Supervisor (sp)	5000-J	0801-0101	Barley Grower (sp)
7122-B	1017-0107	Baling or Compression Machine Operator	6016-A	1003-0701	Barrel Plater (sp)
3025-A	1203-0701	Ballerina (sp)	2121-A	0211-0701	Barrister
3025-A	1203-0701	Ballet Artist (sp)	4099-G	0499-0907	Barrister's Clerk (sp)
3025-A	1203-0701	Ballet Dancer (sp)	6891-A	1101-1101	Barrowman/woman (sp)
5349-A	1001-0501	Balling Drum/Disc Operator (a)	6534-Z	*	Basic Dairy Product Processing Occupations nec
4213-D	0601-0107	Ballistics Expert (sp)	6525-Z	*	Basic Field Crops Product Processing Occupations nec
8010-C	1101-2301	Ballman/woman, Mineral Ore Treating (sp)	6542-Z	*	Basic Fruit and Vegetable Processing Occupations nec
5001-A	0803-0101	Banana Grower (sp)	6001-C	0909-0311	Basic Oxygen Steelmaking (BOS) Furnaceman/woman (a)
8030-B	1101-3103	Banana Picker (sp)	6514-Z	*	Basic Processing Occupations, Meat Products nec
6312-A	1005-0101	Banbury Mixer Operator (sp)	3023-C	1203-0505	Bass Player (sp)
3023-D	1203-0507	Band Leader (a)	4297-B	0713-2903	Bass Viola Maker/Repairer (sp)
6332-Z	1005-1199	Bandages and Associated Products Operator (sp)	3023-C	1203-0505	Bassoonist (sp)
6404-Z	1009-0399	Banding Machine Tender (sp)			
1035-A	0403-0113	Bank Accountant/Branch Accountant			
4012-B	0403-0303	Bank Clerk (a)			

Code A	Code B	TITLE	Code A	Code B	TITLE
6302-D	1005-2115	Batch Mixer (sp)	6221-D	0905-1125	Bleacher Operator (Paper Pulp Preparation)
6302-H	1005-2101	Batch Still Operator (Chemicals)	6524-I	1013-0915	Blend Assembly Attendant (sp)
6404-A	1009-0301	Batcher, Premix Concrete	6312-A	1005-0101	Blending Machine Operator, Plastics (a)
5102-B	1101-3503	Beach Seine Fisherman/woman (sp)	6619-B	1011-0701	Blindstitcher (sp)
6605-B	1011-0503	Beamer (a)	6404-H	1009-0313	Block Sawyer, Stone (sp)
6221-E	0905-1127	Beater Operator (Paper Pulp Preparation)	6811-A	0705-0301	Blocklayer (a)
4263-A	0607-0101	Beautician	4033-D	0407-0507	Blooming-Mill Recorder (sp)
4269-A	0611-9913	Beauty Clinic Assistant	6312-D	1005-0107	Blow Moulding Machine Operator
4263-A	0607-0101	Beauty Therapist (a)	6311-C	0701-0905	Blow Moulding Machine Setter
6614-C	0713-1905	Bedding and Mattress Maker	4099-Z	0499-9905	Blueprint Machine Operator (sp)
5000-M	0899-0101	Bee Farmer (a)	3023-E	1203-0509	Blues Singer (sp)
5014-D	1101-3107	Bee Keeper's Assistant (a)	6523-B	0715-1305	Boardhand (a)
5000-M	0899-0101	Bee-Keeper (a)	6893-B	0713-2705	Boat Builder, Aluminium (sp)
6514-C	1013-1305	Beef Boner (sp)	6893-B	0713-2705	Boat Builder, Fibreglass (sp)
5000-B	0801-0301	Beef Cattle Farmer	6893-B	0713-2705	Boat Builder, Wood (sp)
5000-B	0801-0301	Beef Cattle Producer (a)	6893-B	0713-2705	Boat Builder/Repairer
6505-A	1015-0131	Beef Grader (sp)	7013-A	1101-3501	Boat Driver (a)
8020-I	1101-2917	Beef Lugger, Abattoir (sp)	7013-A	1101-3501	Boat Hand (a)
6514-D	1013-1303	Beef Slicer (sp)	6893-B	0713-2705	Boat Repairer (sp)
5000-A	0801-0317	Beef/Sheep Farmer (sp)	7013-A	1101-3501	Boatman/woman (a)
5000-A	0801-0317	Beef/Sheep Producer (sp)	7012-A	0105-1705	Boatswain
5001-B	0803-0103	Beetroot Grower (sp)	6801-E	0903-0115	Bobcat Operator (sp)
6514-A	1013-1301	Belly Opener (sp)	6055-B	0709-0701	Body Maker, First Class
5323-D	0901-0509	Bellydumper Operator (sp)	9005-B	0905-0509	Boiler Attendant
5311-C	0907-0701	Beltman/woman (a)	2043-C	0203-1305	Boiler Design Engineer (sp)
6023-C	0701-0707	Bench Fitter (a)	2043-B	0203-1303	Boiler Erection Engineer (sp)
6621-B	0713-2309	Bender (Shoemaking) (sp)	9005-B	0905-0509	Boiler House Attendant (a)
6049-A	1003-0709	Bending Machine Operator (sp)	6301-D	0303-0113	Boiler Testing Technician (sp)
6302-G	1005-2125	Benzol Still Operator (sp)	6890-E	0715-1109	Boiler and Pipe Lagger (a)
5001-A	0803-0101	Berry Fruit Grower (sp)	6037-A	0701-1703	Boilermaker (a)
6621-D	0713-2305	Bespoke Shoemaker (sp)	6081-A	1003-1101	Boilermaker's Assistant (sp)
6103-A	0703-0901	Bestboy/girl (Film Production) (sp)	6037-A	0701-1703	Boilermaker/Marker-off (sp)
6413-B	0713-0303	Beveller	6037-A	0701-1703	Boilermaker/Welder (sp)
6503-Z	*	Beverage Processing and Related Occupations (Non-Dairy) nec	6342-A	1005-1501	Bomb Loader (sp)
6321-Z	1005-0599	Bias Ply Joiner (sp)	6606-D	1011-0521	Bonding Machine Operator
2132-A	0217-1101	Bibliographer (sp)	6503-D	1013-0107	Bondsman/woman (Non-Retail) (sp)
6071-B	1015-0103	Bicycle Inspector (sp)	6514-C	1013-1305	Boner (a)
6059-Z	0715-4101	Bicycle Repairer (sp)	3011-C	0215-0705	Book Editor
4299-A	0611-9909	Bilingual Interpreter (sp)	3001-E	0215-0309	Book Illustrator (sp)
4012-B	0403-0303	Bill Clerk (sp)	3001-B	0215-0303	Book, Magazine or Publication Designer (sp)
4042-E	0409-0309	Bill Sorter (sp)	6721-A	0707-1101	Bookbinder
5309-E	0907-0705	Bin Runner (a)	6721-A	0707-1101	Bookbinder, Hand (sp)
6524-A	1013-0901	Binsman/woman, Grain (sp)	6721-A	0707-1101	Bookbinder, Machine (sp)
2012-C	0201-1105	Biochemist	3039-B	0499-9915	Bookie (a)
2001-D	0201-0307	Biogeographer (sp)	1039-Z	0505-9917	Booking Agent (sp)
3001-E	0215-0309	Biological Illustrator (sp)	4139-H	0505-9915	Booking Clerk (a)
2012-Z	*	Biological Scientists nec	4011-A	0403-0101	Bookkeeper
2014-B	0301-0303	Biology Technical Officer (a)	4011-Z	*	Bookkeepers and Accounting Clerks nec
2420-A	0201-1301	Biomedical Engineer (sp)	4019-Z	*	Bookkeeping, Banking and Insurance Account Recording and Related Occupations nec
2020-D	0217-0707	Biometrician (sp)	3039-B	0499-9915	Bookmaker
2012-D	0201-1107	Biophysicist	3039-C	0499-9917	Bookmaker's Clerk
6521-E	0715-1307	Biscuit Baker (sp)	6604-C	1011-0107	Bookman/woman (sp)
6520-A	0105-1107	Biscuit Making Supervisor (sp)	5311-C	0907-0701	Boot End Man/Woman (a)
6521-E	0715-1307	Biscuit Mixer (sp)	4221-F	0601-0921	Boring Inspector/Supervisor
6525-B	1013-1505	Biscuit Processer	7012-A	0105-1705	Bosun (a)
6521-E	0715-1307	Biscuitmaker	2015-C	0303-0305	Botanical Technical Assistant (a)
8002-A	0903-0701	Bitumen Paving Machine Operator (a)	2015-C	0303-0305	Botanical Technician
8000-D	1101-1501	Bitumen Worker, Construction (sp)	2012-E	0201-1109	Botanist
6031-A	0701-1301	Blacksmith	2014-B	0301-0303	Botany Technical Officer (sp)
6081-A	1003-1101	Blacksmith's Hammer Driver (sp)	6411-A	0715-1501	Bottle Blower (sp)
6081-A	1003-1101	Blacksmith's Striker (sp)	6504-H	1017-0103	Bottling Machine Attendant
6001-B	0909-0309	Blast Furnace Operator (Iron and Steel)	5323-D	0901-0509	Bottom Dump Haulier (sp)
5322-A	0715-3101	Blasters (a)	5344-C	0909-0305	Bottom Floor Operator (Pellet Plant)
5320-C	0105-1113	Blasting Foreman/woman (a)	6623-Z	1011-0999	Bottom Wheeler (sp)
5322-Z	*	Blasting Occupations, Open Cut Mining nec	6511-B	0711-0303	Bouchier (a)

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

\*: only coded in the other structure

Code A	Code B	TITLE	Code A	Code B	TITLE
4293-A	0611-0501	Bouncer (sp)	5000-Z	0801-0399	Buffalo Farmer (sp)
3031-B	1205-0303	Boundary Umpire (sp)	2051-A	0203-0301	Builder, Professional
6623-Z	1011-0999	Boxer (sp)	1020	0103-0100	Builder (Non-Professional)
5390-D	0907-0313	Braceman/woman (Mine Cage)	7102-B	0907-0303	Builders' Hoist Operator (Materials Only) (sp)
6891-A	1101-1101	Braceman/woman (sp)	6891-A	1101-1101	Builders' Labourer
6052-C	0709-0105	Brake Fitter (a)	2051-B	0203-0303	Building Economist (sp)
6404-Z	1009-0399	Brake Lining Finisher (sp)	2053-C	0301-0703	Building Estimator (sp)
6052-C	0709-0105	Brake Mechanic	4222-A	0601-0903	Building Inspector (sp)
1035-A	0403-0113	Branch Accountant (Financial Institution)	6892-B	1101-1105	Building Insulator (a)
4041-A	0409-0101	Branch Library Attendant (sp)	2051-Z	*	Building Occupations (Professional) nec
4100-C	0105-0507	Branch Manager (Real Estate Agents) (a)	2051-A	0203-0301	Building Officer
1020	0103-0100	Branch Manager (sp)	4012-B	0403-0301	Building Society Clerk (sp)
1022	0103-0500	Branch/Regional Sales Marketing Manager (sp)	4240-A	0105-0911	Building Supervisor
1022	0103-0500	Brand Manager (sp)	2052-B	0203-0503	Building Surveyor (sp)
3031-A	1205-0301	Brand/Identity Steward (sp)	2053-C	0301-0703	Building Technical Officer (a)
6032-C	0701-1505	Brass Smith (sp)	6891-A	1101-1101	Building Worker (a)
6036-C	1003-0907	Brazier	6404-I	1009-0315	Bulk Cement Station Attendant (sp)
6521-B	0711-0503	Bread Baker (a)	7111-F	0907-0511	Bulk Materials Handling Equipment Operator, General
6525-A	1013-1503	Bread Room Hand	7119-Z	*	Bulk Materials and Fluids Handling Occupations nec
6520-A	0105-1107	Breadroom Supervisor (sp)	7111-Z	*	Bulk Ship and Train Loading/Unloading, Reclaiming and Stacking Equipment Operators nec
6203-D	0713-3701	Breakdown Sawyer (a)	6801-C	0903-0105	Bulldozer Operator
6524-G	1013-0913	Breakfast Cereal Cooker (sp)	6341-E	1005-1309	Bullet Maker
6524-G	1013-0913	Breakfast Cereal Maker	6012-A	1003-0103	Bundler (sp)
5000-I	*	Breeding Stock Producer (a)	6514-A	1013-1301	Bung Dropper (sp)
6503-C	1013-0105	Brewery Cellar Operator	3023-C	1203-0505	Bugler (sp)
6500-B	0105-1513	Brewery Supervisor (sp)	6403-A	0909-0501	Burner, Kiln (a)
6503-B	1013-0103	Brewhouse Operator	6403-B	0909-0503	Burner, Tunnel Kiln (a)
8000-A	1101-1101	Brick Cleaner (sp)	6016-C	0715-0101	Burnisher (sp)
6404-G	1009-0311	Brick Press Operator (sp)	1030-E	0213-0109	Bursar
6811-A	0705-0301	Bricklayer	7030-A	0901-0101	Bus Driver
6891-A	1101-1101	Bricklayers' Assistant (sp)	7039-A	0209-0711	Bus Operator Training Instructor/Instructress (sp)
6891-A	1101-1101	Bricklayers' Labourer (sp)	7030-Z	*	Bus, Tram and Truck Drivers nec
6811-A	0705-0301	Bricklaying Contractor (sp)	7039-C	0407-0321	Bus/Tram Inspector (a)
6811-A	0705-0301	Bricklaying Sub-contractor (sp)	5210-A	0105-1709	Bush Boss (a)
2041-A	0203-0901	Bridge Construction Engineer (sp)	2302-A	0207-0513	Business Education Master/Mistress (sp)
7101-C	0907-0105	Bridge Crane Driver (sp)	6061-B	0701-2303	Business Equipment Mechanic (a)
2041-B	0203-0903	Bridge Design Engineer (sp)	2030-A	0213-0701	Business Programmer (sp)
6814-C	0705-0505	Bridge Painter (sp)	6206-D	1007-0121	Buss Planer Operator (a)
6812-A	0705-0101	Bridge and Wharf Carpenter (sp)	6511-A	0711-0301	Butcher (a)
6504-D	1013-1199	Brine Maker (sp)	4299-Z	0611-9999	Butler (sp)
6514-A	1013-1301	Brisket Skinner (sp)	6531-A	0711-0701	Buttermaker
4099-Z	0499-9999	Broadcast Clerk (sp)	6619-B	1011-0701	Buttonhole Machinist (sp)
9013-A	0311-0913	Broadcast Transmitter Operator	1033-B	0213-9901	Buyer (Food and Related Products) (a)
1023	0103-0700	Broadcasting News Editor (sp)	4139-J	0105-0501	Buyer (General)
6111-B	0703-1103	Broadcasting Tradesperson	1033-C	0213-9901	Buyer (Material) (a)
5001-B	0803-0103	Broccoli Grower (sp)	1033-C	0213-9901	Buyer (Piece Goods) (sp)
6892-A	1101-1109	Brush Fencing Contractor/Erector (sp)	4131-A	0505-0301	Buyer (Scrap)
6619-D	1099-9901	Brush Final Assembler/Trimmer (sp)	1033-A	0213-9901	Buyer (Time and Space) (a)
6891-A	1101-1101	Brush Hand (Painting) (sp)	1033-C	0213-9901	Buyer (Tobacco) (sp)
6619-D	1099-9901	Brush Material Blender (sp)	1033-C	0213-9901	Buyer (Wool) (sp)
6619-D	1099-9901	Brush Material Preparer (sp)	4223-Z	0601-0999	By-laws Officer (sp)
6619-D	1099-9901	Brushmaker			
6619-D	1099-9901	Brushmaking Machine Operator (sp)			
5001-B	0803-0103	Brussel Sprout Grower (sp)			
7111-B	0907-0503	Bucketwheel Reclaimer Operator			
5323-B	0903-0123	Bucketwheel-Excavator Operator			

C

6035-A	1003-0901	CO2 Welder (sp)	6213-C	1007-0705	Cabinet Assembler (sp)
7031-C	0901-0305	Cab Driver (a)	6211-D	0713-0901	Cabinet-Maker
5001-B	0803-0103	Cabbage Grower (sp)	7019-Z	0903-9999	Cable Ferry Operator (sp)
4251-G	1101-2513	Cabin Attendant (a)	5319-B	1101-2303	Cable Hand, Underground Coal Mine
4251-G	1101-2513	Cabin Cleaner	6101-B	0703-0103	Cable Jointer
7101-C	0907-0105	Cabin Controlled Overhead Crane Driver	6190-C	0703-2703	Cable Jointer's Assistant (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
2052-B	0203-0503	Cadastral Surveyor (sp)	3023-C	1203-0505	Carillonneur (sp)
3039-Z	1205-9999	Caddie (sp)	6812-A	0705-0101	Carpenter (a)
7001-Z	0307-0101	Cadet Airline Pilot (sp)	6812-A	0705-0101	Carpenter Diver (sp)
7015-A	0307-0799	Cadet Deck Officer	6812-A	0705-0101	Carpenter and Joiner
2045-Z	0203-1999	Cadet Engineer (sp)	6812-A	0705-0101	Carpenter and Joiner, Ship (sp)
3019-C	0215-0599	Cadet Journalist	6891-A	1101-1101	Carpenter and Joiners' Assistant (sp)
1039-J	0103-9900	Cadet Manager (a)	6812-A	0705-0101	Carpentry Contractor (sp)
1039-J	0103-9900	Cadet Manager, Banking (sp)	6812-A	0705-0101	Carpentry Sub-contractor
1039-J	0103-9900	Cadet Manager, Financial (sp)	6812-A	0705-0101	Carpentry and Joinery Contractor (sp)
1039-J	0103-9900	Cadet Manager, Sales and Marketing (sp)	4251-E	1101-2509	Carpet Cleaner
7015-B	0307-9999	Cadet Marine Engineer	6813-A	0713-3901	Carpet Layer
5319-Z	0903-1199	Cadet Underground Coal Miner (sp)	6891-A	1101-1199	Carpet Layers' Assistant (sp)
5390-B	0907-0309	Cage Attendant (a)	6813-A	0713-3901	Carpet Laying Contractor (sp)
6521-A	0711-0501	Cake Decorator (sp)	6813-A	0713-3901	Carpet Laying Sub-contractor (sp)
6504-A	1013-1199	Cake Mix Operator (sp)	6605-D	1011-0507	Carpet Weaver
5344-A	0909-0301	Calcination Plant Operator	5001-B	0803-0103	Carrot Grower (sp)
5344-A	0909-0301	Calcination Process Control Attendant (a)	2052-A	0203-0501	Cartographer
4021-B	0405-0103	Calculator Operator	2053-D	0301-0705	Cartographic Draftsman/woman (sp)
6302-P	1005-2103	Calender Operator	2053-D	0301-0705	Cartographic Technician (sp)
5000-B	0801-0301	Calf Rearer (sp)	2053-D	0301-0705	Cartography Technical Officer (a)
6514-A	1013-1301	Calf Skinner (sp)	6729-B	1017-0121	Carton Cutting and Creasing Forme Setter
6514-A	1013-1301	Calf Sticker (sp)	7122-F	1017-0115	Carton Packing Machine Attendant
6191-A	1003-0713	Calibrating Machine Operator (sp)	3000-A	0215-0101	Cartoonist (sp)
6513-D	1013-0507	Calibrator, Casings (sp)	3000-D	0215-0107	Carver (sp)
3002-E	0311-0709	Camera Assistant (a)	6014-E	1003-0509	Case Hardener
6061-A	0701-2301	Camera Repairer (sp)	6533-A	1013-0301	Casein Maker (sp)
1039-E	0103-0100	Campaign Consultant (a)	6061-B	0701-2303	Cash Register Repairer (sp)
1039-E	0103-0100	Campaign Organiser (a)	5001-A	0803-0101	Cashew Nut Grower(sp)
6504-E	1013-1111	Can Filler and Closer Operator	4132-B	0505-0503	Cashier, Checkout (a)
5000-J	0801-0101	Canary Seed Grower (sp)	4011-E	0403-0109	Cashier, Office
5000-K	0801-0103	Cane Farmer (Sugar) (a)	6524-I	1013-0915	Casing Drum Attendant (sp)
6212-D	0713-1107	Cane Frame Maker (a)	6513-D	1013-0507	Casing Machine Operator (sp)
6212-D	0713-1107	Cane Furniture Maker	6513-D	1013-0507	Casing Stripper (sp)
5019-C	0601-0907	Cane Inspector (Sugar) (a)	6513-D	1013-0507	Casings Cooker (sp)
6203-E	0713-3703	Cant Gang Sawyer (sp)	6513-D	1013-0507	Casings Worker
5001-B	0803-0103	Cantaloup Grower (sp)	5000-Z	0801-0199	Cassava Grower (sp)
4239-B	1101-9911	Canteen Assistant	3020-B	0215-0903	Casting Director
2209-Z	1201-0199	Cantor (sp)	6006-A	1003-0301	Casting Machine Operator
6615-B	0713-2103	Canvas Repairer (sp)	3020-B	0215-0903	Casting Officer (a)
6615-B	0713-2103	Canvas Worker	2410-B	0105-0115	Casualty Nursing Supervisor (sp)
4131-E	0505-0309	Canvasser (a)	5009-Z	0899-0199	Cat Breeder (sp)
6604-E	1011-0105	Cap Spinner (sp)	2132-A	0217-1101	Cataloguer (sp)
5001-B	0803-0103	Cape Gooseberry Grower (sp)	4230-D	0105-0903	Caterer
5001-B	0803-0103	Capsicum Grower (sp)	4239-A	1101-2925	Catering Assistant (a)
4251-F	1101-2511	Car Detailer (sp)	4230-D	0105-0903	Catering Officer (a)
5311-B	0903-0131	Car Driver, Underground Coal Mine (a)	5000-B	0801-0301	Cattle Dealer (sp)
7039-A	0209-0711	Car Driving Instructor/Instructress (sp)	5000-B	0801-0301	Cattle Farmer (a)
7111-E	0907-0509	Car Dumper Operator	5000-B	0801-0301	Cattle Grazier (a)
4299-E	0611-9905	Car Jockey (a)	6514-A	1013-1301	Cattle Sticker (sp)
4299-E	0611-9905	Car Marshal (sp)	5000-A	0801-0501	Cattle/Sheep/Cereal Crop Farmer (sp)
4299-E	0611-9905	Car Park Attendant	5000-A	0801-0501	Cattle/Wheat Farmer (sp)
6392-C	0905-0705	Carbon Dioxide Gas Liquefier	5001-B	0803-0103	Cauliflower Grower (sp)
6035-A	1003-0901	Carbon Dioxide Welder (sp)	6815-B	0705-0703	Ceiling Fixer, Plastering (sp)
6035-A	1003-0901	Carbon Dioxide Welding Machine Operator (sp)	5001-B	0803-0103	Celery Grower (sp)
6404-Z	1009-0399	Carbon Planer Tender (sp)	2012-H	0201-1115	Cell Biologist (sp)
6082-A	0909-0319	Carbon Plant Worker	6503-C	1013-0105	Cellar Worker, Brewery (a)
6014-E	1003-0509	Carburiser (sp)	6503-D	1013-0107	Cellarhand, Winery
6514-B	1013-1303	Carcass Splitter (sp)	3023-C	1203-0505	Cellist (sp)
4042-Z	0409-0399	Card Filer (sp)	2012-L	0201-1123	Cellular Physiologist (sp)
4022-D	0405-0307	Card Punch Operator (a)	6313-B	1005-0303	Cellular Plastics Cutter
4022-Z	0405-0399	Card-Tape Converter Operator (sp)	6312-E	1005-0109	Cellular Plastics Machine Operator
6504-H	1013-1113	Cardboard Box Filler (Food Products) (sp)	6311-D	0701-0907	Cellular Plastics Machine Setter
2403-A	0311-0501	Cardiac Technician	6811-A	0705-0301	Cement Blocklaying Contractor (sp)
6604-D	1011-0103	Carding Machine Operator	6404-I	1009-0315	Cement Crane Operator (sp)
2401-G	0205-0303	Cardiologist	6890-C	0715-1105	Cement Finisher (a)
4240-H	0605-0107	Caretaker	6404-I	1009-0315	Cement Kiln Attendant (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
6404-I	1009-0315	Cement Miller (sp)	6301-B	0303-0113	Chemical Laboratory Technician (sp)
6404-I	1009-0315	Cement Patrolman/woman (sp)	2420-C	0201-1305	Chemical Pathologist (sp)
6404-I	1009-0315	Cement Plant Operator	2002-C	0201-0505	Chemical Physicist (sp)
6815-A	0705-0701	Cement Plasterer (a)	2046-Z	0301-0599	Chemical Plant Design Draftsman/woman (sp)
6815-A	0705-0701	Cement Renderer (a)	2004-A	0301-0101	Chemical Process Analyst (sp)
7122-E	1017-0119	Cement Sacker (sp)	6302-C	1005-2105	Chemical Process Operator, Batching
6623-C	1011-0903	Cementer (Shoemaking) (sp)	6302-A	1005-2107	Chemical Process Unit Operator
5335-B	0909-1107	Cementer Helper, Oil Well (sp)	6399-Z	*	Chemical Processing Occupations nec
5332-G	0909-0109	Cementer, Oil Well	2040-A	0203-0701	Chemical Project Engineer (sp)
5341-B	0905-1103	Central Control Room Operator, Ore Processing	2002-C	0201-0505	Chemical Spectroscopist (sp)
6209-J	1007-0317	Centre Feeder (a)	6303-A	1015-0113	Chemical Testing Assistant (sp)
6204-A	1007-0303	Centre Layer	6301-B	0303-0113	Chemical Testing Technician
6524-E	1013-0909	Centrifuge Operator (Sugar Processing) (sp)	6399-C	0905-1133	Chemical Treatment Operator (sp)
6817-B	0705-1301	Ceramic Tile Layer (sp)	2000-A	0201-0101	Chemist (General)
6817-B	0705-1301	Ceramic Tiler (sp)	2004-A	0301-0101	Chemistry Technical Officer (a)
2044-A	0203-1907	Ceramics Engineer (sp)	2005-A	0303-0101	Chemistry Technician
2003-A	0201-9903	Ceramics Scientist (sp)	2000-Z	*	Chemists nec
2000-C	0201-0105	Cereal Chemist (Feed and Flour Mill) (sp)	5001-A	0803-0101	Cherry Grower (sp)
5000-J	0801-0101	Cereal Crop Grower (sp)	8030-B	1101-3103	Cherry Picker (sp)
6520-B	0105-1107	Cereal Foods Supervisor (sp)	5013-A	0903-0901	Cherry Picker Operator (sp)
5000-J	0801-0101	Cereal Grain and Oilseed Grower	5001-A	0803-0101	Chestnut Grower (sp)
6521-C	0711-0505	Cereal Miller (a)	5000-H	0801-0313	Chicken Meat Producer (a)
6524-A	1013-0901	Cereal Milling Machine Operator	5014-E	1101-3109	Chicken Sexer (sp)
2014-A	0301-0301	Cereals Technical Officer (sp)	1021	0103-0300	Chief Accountant (sp)
6063-A	0713-1303	Chain Maker (sp)	1027	0103-1500	Chief Chemical Engineer (sp)
6052-A	0709-0101	Chain Saw Mechanic (sp)	1028	0103-1700	Chief Chemist (sp)
6213-C	1007-0705	Chair Assembler (sp)	4231-C	0711-0901	Chief Cook, Marine (sp)
6211-E	0713-0903	Chairmaker	1021	0103-0300	Chief Cost Accountant (sp)
1020	0103-0100	Chairman/woman (sp)	1027	0103-1500	Chief Electrical Engineer (sp)
2120-E	0211-0509	Chairperson, Industrial Tribunal (sp)	1020	0103-0100	Chief Executive (sp)
4041-D	0409-0107	Change-of-Address Clerk (sp)	1020	0103-0100	Chief Executive, Regional/Country Hospital (sp)
2200-A	0211-1101	Chaplain (sp)	4211-A	0105-0709	Chief Fire Officer (a)
3000-A	0215-0101	Charcoal Artist (sp)	4211-D	0105-0715	Chief Fire Prevention Officer (sp)
2410-B	0105-0115	Charge Sister (sp)	4220-A	0105-0721	Chief Fisheries and Wildlife Officer (sp)
6803-B	1101-1701	Chargeman/woman, Railway (sp)	4294-B	0611-0703	Chief Flight Attendant (sp)
7031-A	0901-0301	Chauffeur/Chauffeuse, Company (sp)	7001-D	0209-0713	Chief Flying Instructor/Instructress (sp)
7031-A	0901-0301	Chauffeur/Chauffeuse	1028	0103-1700	Chief Geologist (sp)
7031-A	0901-0301	Chauffeur/Chauffeuse, Funerals (sp)	4220-A	0105-0721	Chief Health Inspector (sp)
7031-A	0901-0301	Chauffeur/Chauffeuse, Private (sp)	4210-A	0105-0701	Chief Inspector (sp)
2209-Z	1201-0199	Chazan (sp)	4220-A	0105-0721	Chief Inspector, Factories and Shops (sp)
4294-B	0611-0703	Check Flight Attendant (sp)	1020	0103-0100	Chief Librarian (sp)
4033-D	0407-0507	Checker (Clerical) (a)	2120-C	0211-0505	Chief Magistrate (a)
4033-D	0407-0507	Checker, Agricultural Produce (sp)	1023	0103-0700	Chief Manufacturing Executive (sp)
4132-B	0505-0503	Check-out Cashier (a)	7019-A	0307-9907	Chief Marine Engineer (sp)
4132-B	0505-0503	Check-out Operator	7011-C	0307-0705	Chief Mate (sp)
4299-Z	0611-9999	Checkroom Attendant (sp)	1027	0103-1500	Chief Mining Engineer (sp)
6534-A	1013-1507	Cheese Factory Worker (sp)	4211-A	0105-0709	Chief Officer, Fire Brigade
6531-B	0711-0703	Cheesemaker	4212-A	0105-0717	Chief Officer, Prison
6531-B	0711-0703	Cheesemaker (Automated Plant) (sp)	1026	0103-1300	Chief Programmer (sp)
4230-A	0105-1107	Chef (a)	2019-B	0311-9911	Chief Ranger (sp)
4232-A	0711-2101	Chef, Apprentice (a)	4295-A	0611-0901	Chief Steward (Marine) (sp)
4231-A	0711-0901	Chef Entremetier (sp)	3010-D	0215-0509	Chief Sub-editor (sp)
4231-A	0711-0901	Chef Garde-Manger (sp)	4210-A	0105-0701	Chief Superintendent, Criminal Investigation Branch (sp)
4231-A	0711-0901	Chef Pâtissier (sp)	1028	0103-1700	Chief Surveyor (sp)
4231-A	0711-0901	Chef Poissonnier (sp)	3010-B	0215-0503	Chief of Staff (News)
4231-A	0711-0901	Chef Potager (sp)	4220-A	0105-0721	Chief/Senior Prevention Officer (Customs) (sp)
4231-A	0711-0901	Chef Rotisseur (sp)	4291-D	0609-0105	Child Care Aide (Non-Certificated) (a)
4231-A	0711-0901	Chef Saucier (sp)	4291-D	0609-0105	Child Care Assistant (Non-Certificated) (a)
4231-A	0711-0901	Chef, General	4291-D	0609-0105	Child Care Attendant (Non-Certificated) (a)
2040-A	0203-0701	Chemical Engineer (Design)	4291-C	0609-0103	Child Care Group Worker
2040-B	0203-0703	Chemical Engineer (Manufacturing) (a)	4291-D	0609-0105	Child Care Worker (Non-Certificated) (a)
2040-B	0203-0703	Chemical Engineer (Production)	2414-A	0609-0301	Child Care Worker (Nursing) (a)
2040-C	0203-0705	Chemical Engineer (Research)	4291-Z	*	Child Care and Related Occupations nec
2047-Z	0305-9901	Chemical Engineering Technician	4291-D	0609-0105	Child Minding Assistant (Non-Certificated) (a)
2040-Z	*	Chemical Engineers nec	2119-D	0311-0107	Child Welfare Officer (sp)
2004-A	0301-0101	Chemical Instrumentation Technologist (sp)			

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

\*: only coded in the other structure

Code A	Code B	TITLE	Code A	Code B	TITLE
2209-B	1201-0103	Children's Officer (Religious) (sp)	4252-A	0713-3301	Cleaner, Curtains (sp)
5001-A	0803-0101	Chilli Grower (sp)	4251-H	1101-2599	Cleaner, Domestic (a)
6811-B	0705-0303	Chimney Builder (sp)	4251-A	1101-2501	Cleaner, Freight Car (sp)
4251-Z	1101-2599	Chimney Sweep (sp)	4252-A	0713-3301	Cleaner, Fur, Leather and Suede (sp)
5001-A	0803-0101	Chinese Egg Plant Grower (sp)	4251-A	1101-2501	Cleaner, High Pressure Water (sp)
6205-Z	1007-0599	Chip Preparation Operator, Particleboard Manufacture (sp)	4251-C	1101-2505	Cleaner, Hospital (a)
6209-I	1007-0111	Chipper Operator	4251-A	1101-2501	Cleaner, Industrial (a)
6209-I	1007-0111	Chipping Machine Tender (a)	4251-A	1101-2501	Cleaner, Power House (sp)
2409-C	0205-1901	Chiropodist (a)	4251-B	1101-2503	Cleaner, School (sp)
2419-C	0609-0503	Chiropractic Aide	4251-A	1101-2501	Cleaner, Steam (sp)
2409-A	0205-1701	Chiropractor/Osteopath	4251-F	1101-2511	Cleaner, Vehicle (a)
5001-A	0803-0101	Chive Grower (sp)	4251-D	1101-2507	Cleaner, Window (a)
6302-L	1005-2109	Chlorination Plant Operator (Chemicals)	4251-Z	*	Cleaning Occupations nec
6392-C	0905-0705	Chlorine Gas Liquefier (sp)	2200-A	0211-1101	Clergyman/woman (a)
6509-A	0715-1301	Chocolate Enrobing Machine Operator (sp)	4092-Z	0499-0701	Clerical Assistant
6500-A	0105-1513	Chocolate Supervisor (sp)	4092-Z	*	Clerical Assistants (Other) nec
5219-Z	1101-3399	Chokerman/woman (sp)	4099-Z	*	Clerical and Related Occupations nec
5001-B	0803-0103	Choko Grower (sp)	2129-E	0499-0909	Clerk of Court
3023-A	1203-0501	Choral Director	2129-E	0499-0909	Clerk of Local Court (a)
3020-I	0215-1301	Choreographer	2129-E	0499-0909	Clerk of Magistrate's Court (a)
3023-Z	1203-0599	Chorister (sp)	2129-E	0499-0909	Clerk of Petty Sessions (a)
3025-A	1203-0701	Chorus Dancer (sp)	2053-C	0301-0703	Clerk of Works (sp)
3023-Z	1203-0599	Chorus Singer (sp)	2129-B	0211-0903	Clerk of the High Court (a)
6541-A	1013-0703	Chutney Maker (sp)	4099-A	*	Clerk, General (a)
4132-E	1101-9913	Cigarette Machine Attendant (sp)	4013-A	0403-0501	Clerk, General Insurance
9012-A	0715-4301	Cinema Projectionist (a)	4019-Z	0403-9999	Clerk, Hospital Benefit Fund (sp)
9012-A	0715-4301	Cinematograph Operator (a)	4013-B	0403-0503	Clerk, Policy Holder Services
3020-D	0215-0907	Cinematographer (a)	6621-A	0713-2307	Clicker
4042-C	0409-0305	Circulation Clerk (a)	2001-D	0201-0307	Climatologist (sp)
4042-A	0409-0301	Circulation Representative	7101-B	0907-0103	Climbing-Tower Crane Driver (sp)
3022-Z	1203-0399	Circus Ring Leader (sp)	2420-B	0201-1303	Clinical Biochemist (sp)
5001-A	0803-0101	Citrus Fruit Grower (sp)	2423-A	0303-0311	Clinical Biochemistry Technician (sp)
6541-B	1013-0701	Citrus Plant Operator (sp)	2420-B	0201-1303	Clinical Chemist (sp)
6812-A	0705-0101	Civil Construction Carpenter (sp)	2401-Z	0205-0399	Clinical Endocrinologist (sp)
2046-A	0301-0501	Civil Construction Technical Officer (sp)	2420-C	0201-1305	Clinical Immunologist (sp)
2046-F	0301-0501	Civil Design Draftsman/woman (a)	2420-B	0201-1303	Clinical Laboratory Bacteriologist (sp)
2041-A	0203-0901	Civil Engineer (Construction)	2420-B	0201-1303	Clinical Laboratory Microbiologist (sp)
2041-B	0203-0903	Civil Engineer (Design)	2420-Z	*	Clinical Laboratory Scientists nec
2041-C	0203-0905	Civil Engineer (Operations)	2420-B	0201-1303	Clinical Laboratory Virologist (sp)
2041-D	0203-0907	Civil Engineer (Research)	2423-A	0303-0311	Clinical Microbiology Technician (sp)
2047-E	0305-0101	Civil Engineering Detail Draftsman/woman (a)	2420-B	0201-1303	Clinical Pharmacologist (sp)
2047-E	0305-0101	Civil Engineering Drafting Assistant (a)	2420-A	0201-1301	Clinical Physical Scientist
2046-F	0301-0501	Civil Engineering Draftsman/woman (a)	2101-A	0217-0301	Clinical Psychologist
2046-A	0301-0501	Civil Engineering Technical Officer (a)	6612-D	0713-1703	Cloth-Cutting Machine Operator (a)
2047-A	0305-0101	Civil Engineering Technician	3022-A	1203-0301	Clown (sp)
2041-Z	*	Civil Engineers nec	7030-A	0901-0101	Coach Driver (sp)
4042-C	0409-0305	Claims Clerk, Lost or Damaged Goods (sp)	3030-A	1205-0101	Coach, Basketball (sp)
4042-C	0409-0305	Claims and Credit Clerk (a)	3030-A	1205-0101	Coach, Football (sp)
6891-A	1101-1101	Clamper, Pipeline (sp)	3030-A	1205-0101	Coach, Sport
6801-H	0903-0127	Clamshell Dredge Operator (sp)	3030-A	1205-0101	Coach, Tennis (sp)
5349-F	1001-0507	Clarification Process Operator (a)	3030-A	1205-0101	Coach/Trainer, Athletics (sp)
5349-F	1001-0507	Clarifier Operator	5349-Z	1001-0599	Coal Briquette Maker (sp)
3023-C	1203-0505	Clarinetist (sp)	5311-A	0903-0119	Coal Cutting Machineman/woman (a)
4297-B	0713-2903	Classical Guitar Maker/Repairer (sp)	5393-D	1001-0705	Coal Doctor (sp)
4099-C	0499-9913	Classified Advertising Clerk	2001-A	0201-0301	Coal Geologist (sp)
3000-D	0215-0107	Clay Modeller (sp)	2046-Z	0301-0599	Coal Mining Technical Officer (sp)
6406-C	1009-0321	Clay Processing and Forming Machine Tender	5321-A	0909-0717	Coal Overburden Driller (sp)
6400-B	0105-1515	Claymaker-in-Charge (sp)	5341-D	0905-1107	Coal Preparation Plant End Loader Operator (sp)
5343-J	1001-0319	Cleaner Mill Operator (sp)	5341-D	0905-1107	Coal Preparation Plant Picking Belt Operator (sp)
4251-A	1101-2501	Cleaner, Abattoir (sp)	5393-D	1001-0705	Coal Sample Tester
4251-A	1101-2501	Cleaner, Boiler (sp)	5393-B	1001-0703	Coal Sampler
4251-F	1101-2511	Cleaner, Car (sp)	5321-B	0909-0715	Coal Seam Borer (a)
4251-E	1101-2509	Cleaner, Carpet (a)	5321-B	0909-0715	Coal Seam Driller
4251-B	1101-2503	Cleaner, Commercial (a)	5340-E	0105-1305	Coal Wash Plant Foreman/woman (a)
4251-A	1101-2501	Cleaner, Construction (sp)	5341-D	0905-1107	Coal Wash Plant Operator (a)
			5340-E	0105-1305	Coal Washing Plant Foreman/woman (a)

Code A	Code B	TITLE	Code A	Code B	TITLE
5341-D	0905-1107	Coal Washing Plant Operator/Attendant (a)	4022-B	0405-0303	Computer Output/Microfilm Operator (sp)
6222-D	1007-0909	Coating Machine Operator (Papermaking)	4022-B	0405-0303	Computer Peripheral Equipment Operator
6302-D	1005-2115	Coating Solution Mixer (sp)	2030-A	0213-0701	Computer Programmer
4234-A	0603-0301	Cocktail Bar Attendant (a)	2030-B	0213-0703	Computer Scientist
5001-A	0803-0101	Coffee Grower (sp)	6119-B	0703-1507	Computer Serviceman/woman
6211-D	0713-0901	Coffin Maker (sp)	4022-B	0405-0303	Computer Support Equipment Operator (a)
6012-A	1003-0103	Coil Operator (sp)	2030-C	0213-0705	Computer Systems Designer (sp)
6102-C	0703-0305	Coil Winder, Heavy Duty	2030-C	0213-0705	Computer Systems Engineer (sp)
6191-B	1003-1109	Coil Winder, Light (sp)	4041-C	0409-0105	Computer-Tape Librarian (a)
6191-A	1003-0713	Coil Winding Machine Operator (sp)	5341-B	0905-1103	Concentrator Control Room Operator (sp)
5332-D	0909-0901	Coiled Tubing Operator (a)	8010-C	1101-2301	Concentrator Labourer (sp)
4296-A	0499-0101	Collection Agent (a)	3023-B	1203-0503	Concert and Opera Singer
4296-A	0499-0103	Collection Clerk	2120-E	0211-0509	Conciliation and Arbitration Commissioner (a)
4296-Z	0499-0105	Collector, Parking Meter (sp)	6890-C	0715-1105	Concrete Finisher
4296-Z	*	Collectors nec	6890-C	0715-1105	Concrete Floor Layer (sp)
6103-A	0703-0901	Colliery Electrician (sp)	6890-C	0715-1105	Concrete Layer (a)
6302-D	1005-2115	Colour Mixer (sp)	6404-E	1009-0307	Concrete Machine Moulder (sp)
6394-A	1005-1901	Colour Printer Operator (sp)	7030-D	0901-0503	Concrete Mixer Driver (sp)
3002-D	0311-0707	Colourist (sp)	6404-E	1009-0307	Concrete Pipe Spin-Caster (sp)
3010-C	0215-0507	Columnist (sp)	6404-E	1009-0307	Concrete Pre-cast Moulder
6604-E	1011-0105	Comber (sp)	6890-C	0715-1105	Concrete Slab Layer (a)
5013-A	0903-0901	Combine Harvester Operator (sp)	6890-B	0715-1105	Concreter (a)
2040-A	0203-0701	Combustion Engineer (sp)	4139-G	0505-9913	Conductor (Bus/Tram)
3022-A	1203-0301	Comedian	6509-A	0715-1301	Confectioner
3002-Z	*	Commercial Art Support Occupations nec	6509-A	0715-1301	Confectioner (Non-Trade) (a)
5000-I	0801-0301	Commercial Beef Breeder (sp)	6504-H	1013-1113	Confectionery Processer (sp)
4251-B	1101-2503	Commercial Cleaner	6500-A	0105-1513	Confectionery Supervisor (sp)
1022	0103-0500	Commercial Manager (Marketing) (sp)	1039-Z	0611-9999	Conference Co-ordinator (sp)
1024	0103-0900	Commercial Manager/Director (sp)	4054-A	0411-0701	Confidential Messenger (sp)
3000-B	0215-0103	Commercial Photographer (sp)	3022-B	1203-0303	Conjurer (sp)
7001-B	0307-0103	Commercial Pilot, General Aviation	4299-A	0611-9909	Consecutive Interpreter (sp)
4210-A	0105-0701	Commissioned Police Officer	4221-Z	0601-0999	Conservation Officer
1032-E	0499-0505	Commonwealth Employment Service Officer (a)	2130-Z	0217-9999	Conservator (sp)
1000-A	0101-0101	Commonwealth Minister (sp)	1028	0103-1700	Conservator of Forests (sp)
2030-C	0213-0705	Communications Analyst (sp)	4022-A	0405-0301	Console Operator (Computer) (a)
2042-B	0203-1103	Communications Engineer	4132-A	0505-0501	Console Operator, Service Station (a)
2046-C	0301-0505	Communications Engineering Technical Officer (sp)	6818-Z	*	Construction Trade Apprentice Occupations nec
6111-A	*	Communications Equipment Tradesperson	6891-A	1101-1101	Construction Worker (a)
2046-I	0301-0505	Communications and Data Systems Draftsman/woman (sp)	7101-A	0907-0101	Construction-Crane Driver (sp)
2119-A	0311-0101	Community Development Officer (a)	2109-C	0217-0507	Consultant Historian (sp)
2412-A	0309-0301	Community Health Nurse	4216-C	*	Consultant Investigator, Retail (a)
2401-B	0205-0399	Community Health Specialist (a)	2101-Z	0217-0300	Consulting Psychologist (sp)
2129-Z	0211-0999	Community Justice Centre Mediator (sp)	6419-Z	1009-0199	Contact Lens Surfacing Technician (sp)
2102-A	0217-0501	Community Planner (sp)	6511-C	0711-0303	Continental Smallgoods Maker (sp)
2101-B	0217-0303	Community Psychologist (sp)	3028-Z	0715-3799	Continuity Person (sp)
2110-A	0211-0101	Community Social Worker	3011-B	0215-0703	Continuity Writer (sp)
2119-A	0311-0101	Community Worker	6221-B	0905-1121	Continuous Digester Operator (Paper Pulp Preparation)
6802-B	0903-0703	Compactor Operator (a)	6221-B	0905-1121	Continuous Digester Operator, Chemical Pulp (Paper) (sp)
1020	0103-0100	Company Manager (sp)	6221-B	0905-1121	Continuous Digester Operator, Semi-chemical Pulp (Paper) (sp)
1021	0103-0300	Company Secretary (sp)	6403-A	0909-0501	Continuous Kiln Operator (sp)
3027-B	1203-1103	Compere	5311-A	0903-0119	Continuous Miner Driver, Underground Coal Mine
2030-A	0213-0701	Compiler Writer (sp)	6302-G	1005-2125	Continuous Still Operator (sp)
3024-A	0215-1101	Composer	4259-A	*	Continuous Towel Rolling-Machine Attendant (sp)
6700-A	0105-1109	Composing Department Supervisor	6013-C	1003-0311	Continuous Vulcanising Machine Operator (sp)
6701-A	0707-0101	Compositor	6811-A	0705-0301	Contract Bricklayer (sp)
6302-E	1005-2111	Compounder (Chemicals)	6812-A	0705-0101	Contract Carpenter (sp)
6393-A	1005-1701	Compressed Gas Plant Worker	6813-A	0713-3901	Contract Carpet Layer (sp)
7112-B	0909-0103	Compressor Turbine Operator	6815-B	0705-0703	Contract Fibrous Plasterer (sp)
6331-F	1005-0911	Compressor, Confectionery (sp)	5000-H	0801-0313	Contract Grower, Poultry Meat Production (sp)
6331-F	1005-0911	Compressor, Medicinal Tablets (sp)	6816-A	0705-0901	Contract Plumber (sp)
6331-F	1005-0911	Compressor, Salt Tablets (sp)	6816-A	0705-0901	Contract Plumber, Drainer and Gasfitter (sp)
4021-B	0405-0103	Comptometrist (a)	6817-A	0705-1101	Contract Roof Tiler (sp)
2042-D	0203-1107	Computer Engineer (sp)			
4022-A	0405-0301	Computer Operator			

Code A	Code B	TITLE	Code A	Code B	TITLE
6815-A	0705-0701	Contract Solid Plasterer (sp)	5399-Z	*	Coring Engineer (sp)
6817-B	0705-1301	Contract Wall and Floor Tiler (sp)	6817-B	0705-1301	Cork Tile Floor Layer (sp)
5019-Z	0899-9999	Contractor, Backfat Testing (sp)	2120-A	0211-0501	Coroner
6811-A	0705-0301	Contractor, Bricklayer (sp)	1021	0103-0300	Corporate Finance Manager (sp)
6812-A	0705-0101	Contractor, Carpenter and Joiner (sp)	1034-A	0501-0101	Corporate Finance Officer
6813-A	0713-3901	Contractor, Carpet Laying (sp)	1026	0103-1300	Corporate Information Services Manager (sp)
6811-A	0705-0301	Contractor, Concrete Blocklaying (sp)	2121-B	0211-0703	Corporate Legal Officer
6890-C	0715-1105	Contractor, Concreting (sp)	1025	0103-1100	Corporate Personnel Manager (sp)
5019-Z	0899-9999	Contractor, Crutching (sp)	1025	0103-1100	Corporate Remuneration Manager (sp)
6816-C	0705-0905	Contractor, Drainage (sp)	4042-C	0409-0305	Correspondence Clerk
5019-Z	0899-9999	Contractor, Drenching (sp)	4042-Z	*	Correspondence Clerks Occupations nec
6815-B	0705-0703	Contractor, Fibrous Plastering (sp)	3010-C	0215-0507	Correspondent (sp)
5019-Z	0899-9999	Contractor, Foot-Rotting (sp)	6814-C	0705-0505	Corrosion Control Coating Specialist (sp)
5019-Z	0899-9999	Contractor, Mulesing (sp)	6729-A	0715-3305	Corrugated Machinist (sp)
6816-D	0705-0907	Contractor, Pipe Laying (sp)	4130-I	0505-0117	Cosmetician (sp)
6816-A	0705-0901	Contractor, Plumbing (sp)	2002-D	0201-0507	Cosmic Ray Physicist (sp)
5019-Z	0899-9999	Contractor, Pregnancy Testing (Farm Animals) (sp)	2002-B	0201-0503	Cosmologist (sp)
6817-A	0705-1101	Contractor, Roof Tiling (sp)	1030-B	0213-0103	Cost Accountant
6815-A	0705-0701	Contractor, Solid Plastering (sp)	4011-B	0403-0103	Cost Clerk
5210-A	0105-1709	Contractor, Timber Getting (sp)	3028-E	0715-2301	Costume Designer (sp)
6817-B	0705-1301	Contractor, Wall and Floor Tiling (sp)	6812-A	0705-0101	Cottage Carpenter (sp)
2042-C	0203-1105	Contracts Engineer, Electrical (sp)	6531-B	0711-0703	Cottage Cheesemaker (sp)
2043-B	0203-1303	Contracts Engineer, Mechanical (sp)	4291-E	0609-0107	Cottage Parent (a)
4031-A	0407-0101	Control Clerk, Data Processing (sp)	6604-C	1011-0107	Cotton Gin Operator (a)
6119-A	0703-1505	Control Equipment Tradesperson	6604-C	1011-0107	Cotton Ginner
9001-C	0905-0305	Control Room Operator (Hydro-Electric Station) (sp)	5000-Z	0801-0199	Cotton Grower (sp)
7119-A	0905-1115	Control Room Operator, Bulk Materials and Fluids Handling	5013-A	0903-0901	Cotton Picking Machine Operator (sp)
5341-D	0905-1107	Control Room Operator, Coal Preparation Plant	6211-E	0713-0903	Couchmaker (sp)
7119-A	0905-1115	Control Room Operator, Grain Handling (sp)	2121-A	0211-0701	Counsel (a)
7119-A	0905-1115	Control Room Operator, Ore Handling (sp)	2101-B	0217-0303	Counselling Psychologist
7119-A	0905-1115	Control Room Operator, Tank Farm (sp)	2111-A	0211-0301	Counsellor, General
5341-Z	*	Control Room Operators, Mineral Ore Treating nec	2111-Z	*	Counsellors, Social Welfare nec
2046-I	0301-0505	Control Systems Draftsman/woman (sp)	4139-F	0505-9911	Counter Clerk (Service) (a)
4022-B	0405-0303	Converter Machine Operator (sp)	2120-B	0211-0503	County Court Judge (sp)
8010-B	1101-2303	Conveyor Belt Extension Hand (sp)	4054-A	0411-0701	Courier (sp)
7111-G	0907-0703	Conveyor Belt Operator, Bulk Materials Handling	4217-Z	0601-1199	Courier Guard (sp)
5311-C	0907-0701	Conveyor Belt Operator, Underground Coal Mine	7039-B	0901-0307	Courier, Road Transport
8010-B	1101-2303	Conveyor Belt Patrolman/woman (sp)	2129-F	0611-9911	Court Attendant (a)
4232-A	0711-2101	Cook, Apprentice (a)	2129-F	0611-9911	Court Orderly
4233-B	0603-0105	Cook, Breakfast	2129-B	0211-0903	Court Registrar
4231-D	0711-0901	Cook, Chinese Foods (sp)	4001-B	0401-0103	Court Reporter
4233-A	0603-0101	Cook, Domestic	6614-D	1015-0139	Cover Inspector (sp)
4233-C	0603-0103	Cook, Fast Food	7013-A	1101-3501	Coxswain (a)
4231-D	0711-0901	Cook, Foreign Foods	5342-B	1001-0103	Cracker Attendant (a)
4231-D	0711-0901	Cook, Greek Foods (sp)	3003-Z	*	Craft Occupations nec
4231-D	0711-0901	Cook, Italian Foods (sp)	7104-B	0715-3503	Crane Chaser
4231-C	0711-0901	Cook, Marine	7101-Z	*	Crane Drivers nec
4231-B	0711-0901	Cook, Qualified	7101-A	0907-0101	Crawler-Crane Driver (sp)
6504-A	1013-1199	Cooker Operator (sp)	4291-D	0609-0105	Creche Attendant
4233-Z	*	Cooking Occupations, Non-Trade nec	1035-B	0403-0115	Credit Analyst (sp)
6012-A	1003-0103	Cooling Bed Operator (sp)	1021	0103-0300	Credit Manager (sp)
6212-C	0713-1105	Cooper	1021	0103-0300	Credit Manager, State (sp)
6032-C	0701-1505	Coppersmith	1035-B	0403-0115	Credit Officer
6394-A	1005-1901	Copy Cameraperson (sp)	4012-B	0403-0303	Credit Union Clerk (sp)
4099-B	0499-9911	Copy Holder (sp)	6321-Z	1005-0599	Creel Operator (sp)
6201-A	0713-0701	Copy Lathe Operator (sp)	4290-C	0909-0317	Cremator (a)
4002-C	0401-0305	Copy Typist (sp)	4290-E	1101-9905	Crematorium Assistant
3019-A	0215-0511	Copy-Writer	4290-C	0909-0317	Crematorium Operator
5109-Z	1101-3799	Coral Collector (sp)	2109-Z	0217-0515	Criminologist (sp)
6500-B	0105-1513	Cordial Making Supervisor (sp)	5009-Z	0899-0199	Crocodile Farmer (sp)
5391-A	0909-0705	Core Drill Operator (a)	5019-Z	0899-9999	Crop Marker (sp)
5392-A	0909-1109	Core Drill Operator's Assistant (a)	6204-E	1007-0311	Cross Feed Splicer Operator
6003-A	0701-0103	Coremaker (a)	3019-Z	*	Crossword Puzzle Writer (sp)
			4299-C	0611-9915	Croupier
			6520-A	0105-1107	Crumpet Making Supervisor (sp)
			5342-B	1001-0103	Crusher Attendant

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

\*: only coded in the other structure

Code A	Code B	TITLE	Code A	Code B	TITLE
5341-C	0905-1105	Crusher Control Room Operator (Primary)	2330-A	0217-0903	Curriculum Development Officer
6406-C	1009-0321	Crusher, Clay (sp)	6614-D	1015-0139	Cushion Inspector (sp)
5340-A	0105-1501	Crushing Supervisor (sp)	5001-A	0803-0101	Custard Apple Grower (sp)
5342-Z	*	Crushing, Grinding and Screening Occupations (Mineral Ores) nec	6533-A	1013-0301	Custard Maker (sp)
4022-Z	0405-0399	Cryptographic Machine Operator (sp)	6211-D	0713-0901	Custom Furniture Maker (sp)
2002-E	0201-0509	Crystallographer (sp)	4223-A	0601-0901	Customs Investigator
5001-B	0803-0103	Cucumber Grower (sp)	9006-A	*	Cut-off Collector
5000-Z	0801-0199	Culinary Bean Grower (sp)	6613-C	1011-0705	Cutter Hand, Furriers
5001-A	0803-0101	Cumquat Grower (sp)	6222-H	1007-0917	Cutter Operator (Paper)
6001-Z	0909-0399	Cupelman (Silver) (sp)	6513-A	1013-0501	Cutter Operator (Food Processing) (sp)
1020	0217-9901	Curator (sp)	6313-B	1005-0303	Cutter, Flexible Foam (sp)
5020-C	0105-1113	Curator of Grounds (a)	6313-B	1005-0303	Cutter, Rigid Foam (sp)
2130-A	0217-9901	Curator, Agricultural Science (sp)	6621-A	0713-2307	Cutter, Shoemaking (a)
2130-A	0217-9901	Curator, Anthropology (sp)	6612-D	0713-1703	Cutter, Tailors and Dressmakers
2130-A	0217-9901	Curator, Australian Paintings (sp)	6614-B	0713-1903	Cutter, Upholstery
2130-A	0217-9901	Curator, Contemporary Art (sp)	6801-H	0903-0127	Cutter-Suction Dredge Operator (sp)
2130-A	0217-9901	Curator, Ethnographic Art (sp)	5311-Z	*	Cutting and Transporting Occupations, Underground Coal Mining nec
2130-A	0217-9901	Curator, Geology (sp)	5343-D	1001-0307	Cyanide Operator (a)
2130-A	0217-9901	Curator, History (sp)	6014-E	1003-0509	Cyanider (sp)
2130-A	0217-9901	Curator, Industrial Science (sp)	5343-H	1001-0315	Cyclone Plant Attendant (sp)
1020	0103-0100	Curator, Museum (sp)	6393-B	1005-1703	Cylinder Filler (sp)
2130-A	0217-9901	Curator, Museum/Art Gallery Department	6222-B	1007-0907	Cylinder Machine Operator (sp)
2130-A	0217-9901	Curator, Numismatics (sp)	6702-D	0707-0305	Cylinder Maker (a)
5020-C	0105-1113	Curator, Oval/Racecourse (sp)	6702-D	0707-0305	Cylinder Preparer
1020	0103-0100	Curator, Zoo (sp)	2012-H	0201-1115	Cytogeneticist (sp)
2130-A	0217-9901	Curator, Zoology (sp)	2420-C	0201-1305	Cytopathologist (sp)
5001-A	0803-0101	Currants, Red or Black, Grower (sp)	2423-A	0303-0311	Cytopathology Technician (sp)
2330-A	0217-0903	Curriculum Advisory Officer (sp)	2420-B	0201-1303	Cytotechnologist (sp)

## D

2000-C	0201-0105	Dairy Chemist (sp)	6891-A	1101-1101	Demolisher, Building (sp)
6534-A	1013-1507	Dairy Factory Worker	6891-A	1101-1101	Demolition Worker (sp)
5000-C	0801-0303	Dairy Farmer	7101-A	0907-0101	Demolition-Crane Driver (sp)
4221-A	0601-0905	Dairy Produce Inspector (sp)	4139-C	0505-9905	Demonstrator (Sales)
6533-Z	*	Dairy Product Processing Machine Operators nec	2403-B	0713-3501	Dental Ceramicist (sp)
4221-A	0601-0905	Dairy Supervisor (sp)	2419-D	0609-0505	Dental Chairside Assistant (a)
2015-A	0303-0301	Dairy Technician (sp)	2403-B	0713-3501	Dental Laboratory Technician (a)
2014-A	0301-0301	Dairy Technologist (sp)	2403-B	0713-3501	Dental Mechanic (a)
2404-Z	0205-9999	Dance Therapist (sp)	2419-D	0609-0505	Dental Nurse
3025-A	1203-0701	Dancer	2402-Z	*	Dental Practitioners nec
2030-C	0213-0705	Data Base Analyst (sp)	2403-B	0713-3501	Dental Prosthetist (sp)
4022-D	0405-0307	Data Entry Operator (sp)	2402-B	0205-0503	Dental Public Health Specialist (sp)
2030-Z	*	Data Processers nec	2402-B	0205-0503	Dental Specialist
6410-A	0105-1113	Day Supervisor/Foreman/woman, Glass (sp)	2403-B	0713-3501	Dental Technician
2209-Z	1201-0199	Deacon/Deaconess (sp)	2403-B	0713-3501	Dental Technician, Crown and Bridge (sp)
1034-G	*	Dealer (General Commodities)	2403-B	0713-3501	Dental Technician, Metal (sp)
1034-D	0501-9901	Dealer, Money Market	2403-C	0311-0503	Dental Therapist
1020	0103-0100	Dean (University) (sp)	2402-A	0205-0501	Dentist
6209-G	1007-0101	Debarker Operator	2403-B	0713-3501	Denturist (sp)
4296-A	0499-0101	Debt Collector	4100-E	0105-0511	Department Manager (Sales) (a)
7013-A	1101-3501	Deck Boy/Girl (sp)	4100-E	0105-0511	Department Manager, Women's Wear (sp)
7015-A	0307-0799	Deck Officer, Cadet (a)	4100-E	0105-0511	Department Manager, Men's Wear (sp)
7013-A	1101-3501	Deckhand	4269-Z	0607-9999	Depilatory Hair Remover (sp)
8020-C	1101-2903	Deckman/woman, Sawmill (sp)	4030-B	0105-0319	Depot Master/Mistress, Road Transport (sp)
6524-E	1013-0909	Decolourising Operator (Sugar Processing) (sp)	5310-B	0105-1311	Deputy Blaster, Underground Coal Mine (sp)
6504-A	1013-1199	Deep Fryer (sp)	4211-B	0105-0711	Deputy Chief Fire Officer
5000-Z	0801-0399	Deer Farmer (sp)	1020	0103-0100	Deputy Director (Educational Institution) (sp)
6513-B	1013-0503	Defeatherer/Eviscerator Operator	5341-A	0905-1101	Deputy Dredge Master/Mistress (Sand Mining)
6205-C	1007-0511	Defibrator Attendant (a)	1000-A	0101-0101	Deputy Premier (sp)
3009-Z	0311-9999	Delineator (sp)	1000-A	0101-0101	Deputy Prime Minister (sp)
4032-Z	0407-0399	Delivery Clerk (sp)	1020	0103-0100	Deputy Principal (Educational Institution) (sp)
2109-B	0217-0707	Demographer (sp)	1010-A	0103-1900	Deputy Secretary (Government Department) (sp)
			5310-B	0105-1311	Deputy Shot-Firer, Underground Coal Mine (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
1020	0103-0100	Deputy Vice-Chancellor (sp)	1010-A	0103-1900	Director-General (State Government Department) (sp)
5310-B	0105-1311	Deputy, Underground Coal Mine	1020	0103-0100	Director-General (sp)
2401-L	0205-0319	Dermatologist	3027-C	1203-1105	Disc Jockey
5335-B	0909-1103	Derrick Worker (sp)	6200-Z	0105-1511	Dispatch Foreman/woman, Sawmill (sp)
5335-B	0909-1103	Derrickman/woman (sp)	7121-A	0407-0325	Dispatch Storeman/woman (sp)
2040-A	0203-0701	Design Engineer (Control Systems) (sp)	4030-B	0105-0319	Dispatch Supervisor, Shipping Clerks (sp)
2040-A	0203-0701	Design Engineer (Petrochemical Processes) (sp)	4032-E	0407-0317	Dispatcher, Ambulance (sp)
2040-A	0203-0701	Design Engineer (Water Treatment) (sp)	4032-E	0407-0317	Dispatcher, Automobile Association (sp)
6001-Z	0909-0399	Desilveriser (sp)	4032-E	0407-0317	Dispatcher, Fire Brigade (sp)
6021-A	0701-0501	Detail Draftsman/woman (Tool Design) (a)	4032-E	0407-0317	Dispatcher, Marine (sp)
4216-B	0601-0703	Detection Agent (a)	4032-E	0407-0317	Dispatcher, Police (sp)
4213-B	0601-0103	Detective	4032-E	0407-0317	Dispatcher, Protective Services (sp)
4213-B	0601-0103	Detective Constable (sp)	4032-E	0407-0317	Dispatcher, Radio
4213-B	0601-0103	Detective Sergeant (sp)	4032-E	0407-0317	Dispatcher, Taxi (sp)
5302-D	0909-0713	Development Machine Miner	2403-D	0311-0505	Dispensing Optician (a)
5302-D	0909-0713	Development Miner (a)	3001-B	0215-0303	Display Artist (sp)
5301-A	0715-3107	Development Stope Miner (sp)	3009-B	0311-9909	Display Person (a)
2012-H	0201-1115	Developmental Geneticist (sp)	6399-D	0905-1135	Disposal Plant Operator (a)
2403-Z	*	Diagnosis and Treatment Support Occupations nec	6503-A	1013-0101	Distillation Manager (a)
2401-F	0205-0313	Diagnostic Radiologist (sp)	6302-G	1005-2125	Distillation Operator (Chemicals)
2401-F	0205-0313	Diagnostic Ultrasound Radiologist (sp)	6503-A	1013-0101	Distiller (Beverages)
6063-B	0713-1301	Diamond Cutter (sp)	6500-B	0105-1513	Distillery Supervisor (sp)
5391-A	0909-0705	Diamond Drill Runner (a)	2042-C	0203-1105	Distribution Engineer (sp)
5391-A	0909-0705	Diamond Driller (Mineral Exploration)	9001-D	0905-0307	Distribution Switching Operator
5392-A	0909-1109	Diamond Driller's Assistant (Mineral Exploration)	2120-B	0211-0503	District Court Judge (sp)
5392-A	0909-1109	Diamond Driller's Helper (a)	4222-B	0601-0911	District Health Inspector (sp)
6063-C	0713-1305	Diamond Setter (sp)	4211-C	0105-0713	District Officer (Fire-Fighting) (sp)
6404-Z	1009-0399	Diamond Wheel Finisher (sp)	2041-C	0203-0905	District Road Engineer (sp)
4002-A	0401-0301	Dictatypist	4100-A	0105-0503	District Sales Manager (Insurance)
6311-A	0701-0901	Die Setter (Plastics) (a)	1022	0103-0500	District Sales Manager (sp)
6021-B	0701-0503	Die Sinker (sp)	1023	0103-0700	Division Manufacturing Manager (sp)
6021-B	0701-0503	Diemaker (sp)	1022	0103-0500	Division Sales Manager (sp)
6023-B	0701-0705	Diesel Fitter-Mechanic (sp)	1023	0103-0700	Division Works Manager (sp)
5304-A	0903-0117	Diesel Loader Operator	1025	0103-1100	Division/State Personnel Manager (sp)
6052-B	0701-0705	Diesel Mechanic (a)	1024	0103-0900	Division/State Purchasing Manager (sp)
6052-B	0709-0103	Diesel Motor Mechanic	1021	0103-0300	Division/State/Branch Accounting Manager (sp)
7021-A	0901-0701	Diesel-Electric Locomotive Driver (sp)	1021	0103-0300	Division/State/Branch Administration Manager (sp)
6024-B	0715-0303	Diesetter (sp)	1021	0103-0300	Divisional Accountant (sp)
4230-F	0105-0907	Diet Aide (sp)	1020	0103-0100	Divisional General Manager (sp)
2419-Z	0609-0599	Dietary Assistant (sp)	4100-B	0105-0505	Divisional Manager (Insurance) (a)
2404-F	0205-9903	Dietitian	1020	0103-0100	Divisional Manager (sp)
4230-F	0105-0907	Dietitian's Assistant (sp)	6203-F	1007-0105	Docker (a)
4022-A	0405-0301	Digital Computer Operator (a)	6203-F	1007-0105	Dockerman/woman
2046-E	0301-0509	Digital Controls Technical Officer (sp)	4042-Z	0409-0399	Docket Clerk (sp)
5331-A	0311-9915	Directional Drill Operator	6203-F	1007-0105	Docking Sawyer (a)
5331-A	0311-9915	Directional Driller (a)	2400-A	0205-0101	Doctor (a)
3020-G	0215-0913	Director (Broadcasting)	5009-Z	0899-0199	Dog Breeder (sp)
1020	0103-0100	Director (Educational Institution) (sp)	5012-A	0899-0999	Dog Trainer, Greyhound (sp)
3020-C	0215-0905	Director (Film and Stage)	5012-A	0899-0999	Dog Trainer, Obedience (sp)
1010-C	0103-1900	Director (Government Function) (sp)	5109-D	1101-3707	Dogger (sp)
1020	0105-0115	Director (sp)	7104-A	0715-3501	Dogman/woman
1020	0103-0100	Director of Nursing (sp)	7104-Z	*	Dogmen/women, Crane Chasers and Slinging Occupations nec
3020-D	0215-0907	Director of Photography	4251-H	1101-2599	Domestic (a)
1020	0103-0100	Director of Prisons (sp)	4251-H	1101-2599	Domestic Cleaner
2209-B	1201-0103	Director of Religious Education (sp)	3001-D	0215-0307	Domestic Interior Designer (sp)
1028	0103-1700	Director of Surveys (sp)	2412-A	0309-0301	Domiciliary Nurse (sp)
1020	0103-0100	Director, Computer Centre (sp)	4293-A	0611-0501	Door Attendant
1020	0103-0100	Director, Gallery (sp)	4293-A	0611-0501	Doorman/woman (a)
1020	0103-0100	Director, Health Centre (sp)	6201-A	0713-0701	Double-End Tenoner Operator (sp)
1025	0103-1100	Director, Human Resources/Human Relations (sp)	6604-E	1011-0105	Doubler (sp)
1020	0103-0100	Director, Media Centre (sp)	6521-B	0711-0503	Doughmaker (sp)
1020	0103-0100	Director, Medical Administration (sp)	6403-A	0909-0501	Down Draft Kiln Operator (sp)
1020	0103-0100	Director, Medical Services (sp)	5332-C	0909-0909	Downhole Tool Operator (a)
1020	0103-0100	Director, National Museums (sp)	6801-C	0903-0105	Dozer Driver (a)

Code A	Code B	TITLE	Code A	Code B	TITLE
2047-E	0305-0101	Drafting Assistant, Civil Engineering	6612-A	0713-1701	Dressmaker
2047-F	0305-0301	Drafting Assistant, Electrical Engineering	6533-A	1013-0301	Dried Milk Product Maker (sp)
2047-G	0305-0501	Drafting Assistant, Electronics Engineering	5000-Z	0803-0103	Dried Pea Grower (sp)
2047-H	0305-0701	Drafting Assistant, Mechanical Engineering	5331-Z	*	Drill Equipment Operators, Fluids Drilling nec
2059-Z	*	Drafting Assistant, Surveying (sp)	5321-Z	*	Drill Equipment Operators, Open Cut Mining nec
2046-J	0203-1303	Draftsman/woman, Air-Conditioning (sp)	5302-Z	*	Drill Equipment Operators, Underground Mining (Except Coal) nec
2047-Z	0305-9999	Draftsman/woman, Aircraft Detail (sp)	5321-A	0909-0717	Drill Grader (a)
2053-B	0301-0701	Draftsman/woman, Architectural	5392-A	0909-1109	Drill Helper, Diamond Drilling (a)
2053-D	0301-0705	Draftsman/woman, Cartographic (sp)	5331-B	0909-0701	Drill Operator, Fluids Drilling
2046-Z	0301-0599	Draftsman/woman, Chemical Plant Design (sp)	5320-B	0105-1309	Drill and Blast Foreman/woman (sp)
2046-F	0301-0501	Draftsman/woman, Civil Design (a)	5331-B	0909-0701	Driller, Fluids Drilling (a)
2046-F	0301-0501	Draftsman/woman, Civil Engineering	5321-A	0909-0717	Driller, Open Cut Mining (a)
2047-E	0305-0101	Draftsman/woman, Civil Engineering Detail (a)	2045-Z	0203-1999	Drilling Fluids Engineer (sp)
2046-I	0301-0505	Draftsman/woman, Communications and Data Systems (sp)	5320-B	0105-1309	Drilling Foreman/woman (Open Cut Mining) (a)
2046-I	0301-0505	Draftsman/woman, Control Systems (sp)	5320-B	0105-1309	Drilling and Blasting Foreman/woman (sp)
6021-A	0701-0501	Draftsman/woman, Detail (Tool Design) (a)	4132-D	0505-0507	Drive-in Attendant (Food)
2046-H	0301-0503	Draftsman/woman, Electrical Design (a)	4132-C	0505-0505	Drive-in Attendant (Theatre)
2046-H	0301-0503	Draftsman/woman, Electrical Engineering	8090-A	1101-0501	Driver's Offsider, Truck (a)
2047-F	0305-0301	Draftsman/woman, Electrical Engineering Detail (a)	4217-B	0601-1103	Driver, Armoured Car (sp)
2046-I	0301-0505	Draftsman/woman, Electronics Design (a)	7030-A	0901-0101	Driver, Bus (sp)
2047-G	0305-0501	Draftsman/woman, Electronics Detail (a)	7031-A	0901-0301	Driver, Car (a)
2046-I	0301-0505	Draftsman/woman, Electronics Engineering	7030-A	0901-0101	Driver, Coach (sp)
2046-I	0301-0505	Draftsman/woman, Equipment Design (sp)	7101-A	0907-0101	Driver, Construction-Crane (sp)
2046-J	0301-0507	Draftsman/woman, Heating and Ventilating (sp)	6801-C	0903-0105	Driver, Dozer (a)
2046-J	0301-0507	Draftsman/woman, Jig and Tool Design (sp)	7193-A	0903-0301	Driver, Fork-Lift
2046-H	0301-0503	Draftsman/woman, Lighting Design (sp)	7192-A	0901-0507	Driver, Furniture Removalist
2046-J	0301-0507	Draftsman/woman, Mechanical Design (a)	6801-B	0903-0103	Driver, Grader (a)
2047-H	0305-0701	Draftsman/woman, Mechanical Detail (a)	3032-B	1205-0503	Driver, Harness Race (sp)
2046-J	0301-0507	Draftsman/woman, Mechanical Engineering	7101-A	0907-0101	Driver, Mobile Crane
2047-Z	0305-9999	Draftsman/woman, Mining Detail (sp)	3032-B	1205-0503	Driver, Racing Car (sp)
2046-H	0301-0503	Draftsman/woman, Motor Control (sp)	7021-A	0901-0701	Driver, Railway Engine (a)
2046-H	0301-0503	Draftsman/woman, Relays (sp)	7193-A	0903-0301	Driver, Reach Truck (sp)
2046-F	0301-0501	Draftsman/woman, Road Design (sp)	7031-C	0901-0305	Driver, Taxi (a)
2046-J	0301-0507	Draftsman/woman, Sewage Pumping (sp)	7101-B	0907-0103	Driver, Tower Crane
2046-F	0301-0501	Draftsman/woman, Sewage Reticulation (sp)	5013-A	0903-0901	Driver, Tractor, Pineapple Growing (sp)
2046-Z	0301-0599	Draftsman/woman, Shipbuilding Design (sp)	7030-B	0901-0103	Driver, Tram (a)
2046-F	0301-0501	Draftsman/woman, Steel Detail (sp)	7030-E	0901-0505	Driver, Truck (Articulated) (a)
2046-G	0301-0501	Draftsman/woman, Structural Design (a)	7030-D	0901-0503	Driver, Truck (Heavy) (a)
2046-G	0301-0501	Draftsman/woman, Structural Engineering	7030-C	0901-0501	Driver, Truck (Light) (a)
2046-H	0301-0503	Draftsman/woman, Substation Design (sp)	7193-A	0903-0301	Driver, Turret Truck (sp)
2059-Z	0301-0707	Draftsman/woman, Survey Detail (sp)	3032-B	1205-0503	Driver/Cyclist (Sport)
2053-E	0301-0707	Draftsman/woman, Surveying	4217-B	0601-1103	Driver/Escort, Armoured Car (a)
2053-D	0301-0705	Draftsman/woman, Topographic (sp)	7101-Z	*	Drivers, Crane nec (a)
2046-F	0301-0501	Draftsman/woman, Tunnels (sp)	7193-Z	*	Drivers, Fork-Lift nec
5323-A	0903-0109	Dragline Excavator Driver (a)	7039-A	0209-0711	Driving Instructor/Instructress, Articulated Vehicle (a)
5320-E	0105-1303	Dragline Foreman/woman, Open Cut Mine	7039-A	0209-0711	Driving Instructor/Instructress, Motor Vehicle
5324-C	0903-1103	Dragline Oiler	6209-H	1007-0103	Drop-Sorter Operator
5323-A	0903-0109	Dragline Operator, Open Cut Mining	5001-A	0803-0101	Drug Plants Grower (sp)
6816-C	0705-0905	Drain Cleaner (sp)	2111-A	0211-0301	Drug/Alcohol Counsellor (sp)
8010-B	1101-2303	Drain Digger, Underground Mine (sp)	5343-H	1001-0315	Drum Plant Attendant (sp)
6816-C	0705-0905	Drainage Contractor (sp)	3023-C	1203-0505	Drummer (sp)
6816-C	0705-0905	Drainer	8020-C	1101-2903	Dry Chainman/woman, Sawmill (sp)
6891-A	1101-1101	Drainer (Unlicensed) (sp)	6513-A	1013-0501	Dry Cure Man/Woman (sp)
3021-B	1203-0103	Drama Coach	6341-A	1005-1301	Dry Explosive Mixer (sp)
3021-B	0209-0707	Drama Teacher	6392-B	0905-0703	Dry Ice Maker
3010-C	0215-0507	Drama Critic (sp)	5343-K	1001-0321	Dry Mill Process Worker (a)
3021-A	1203-0101	Dramatic Artist (a)	5343-K	1001-0321	Dry Mill Separation Operator
3021-B	1203-0103	Dramatic Coach (sp)	6203-G	1015-0117	Dry Mill Timber Grader (sp)
3011-A	0215-0701	Dramatist (sp)	6406-C	1009-0321	Dry Press Operator, Clay (sp)
6605-E	1011-0509	Drawer-in	6513-G	1013-0513	Dry Renderer (sp)
6604-E	1011-0105	Drawing Machine Operator (sp)	4252-A	0713-3301	Dry-Cleaner
6801-H	0903-0127	Dredge Operator	4253-A	0713-6101	Dry-Cleaner, Apprentice (a)
6605-A	1011-0501	Dresser (Textiles) (a)	5343-K	1001-0321	Dryer Operator (Mineral Ore Testing) (a)
6082-B	1003-1103	Dresser/Grinder (sp)	6222-C	1007-0905	Dryer Operator, Paper Machine

Code A	Code B	TITLE	Code A	Code B	TITLE
9013-Z	0311-0999	Dubbing Machine Operator (sp)	6301-D	0303-0113	Dye Penetrant Testing Technician (sp)
5001-A	0803-0101	Duboisia Grower (sp)	6606-A	1011-0515	Dye Vat Attendant (a)
6033-B	1003-0707	Ductworker (a)	2004-D	0301-0107	Dyeing and Finishing Technologist (sp)
5219-B	1101-3311	Dumpman/woman (Logging) (a)	6606-A	1011-0515	Dyeing, Bleaching, Finishing Machine Operator
5319-Z	1101-2303	Dust Sampler (sp)	6606-A	1011-0515	Dyer (a)
2030-A	0213-0701	Duty Programmer (sp)	6606-A	1011-0515	Dyer's Assistant (a)

## E

2030-C	0213-0705	EDP Consultant (sp)	2046-B	0301-0503	Electrical Distribution Officer (sp)
4269-Z	0607-9999	Ear Piercer (sp)	2042-A	0203-1101	Electrical Engineer (Research)
2401-M	0205-0323	Ear, Nose and Throat Specialist (a)	2047-F	0305-0301	Electrical Engineering Detail Draftsman/ woman (a)
2004-Z	0301-0103	Earth Sciences Technical Officer	2047-F	0305-0301	Electrical Engineering Drafting Assistant (a)
2014-B	0301-0303	Ecological Technical Officer (sp)	2046-H	0301-0503	Electrical Engineering Draftsman/woman (a)
2012-F	0201-1111	Ecologist	2046-B	0301-0503	Electrical Engineering Technical Officer (a)
2100-D	0217-0107	Econometrician	2047-C	0305-0301	Electrical Engineering Technician
2109-B	0217-0505	Economic Geographer (sp)	2042-Z	*	Electrical Engineers nec
2001-A	0201-0301	Economic Geologist (sp)	6102-D	0703-0307	Electrical Equipment Servicer
2109-C	0217-0507	Economic Historian (sp)	6102-B	0703-0303	Electrical Fitter, Maintenance
2100-A	0217-0101	Economist, General	6102-A	0703-0301	Electrical Fitter, Production/Installation
2100-B	0217-0103	Economist, Research	6102-A	0703-0301	Electrical Fitter/Mechanic (sp)
2100-Z	*	Economists and Econometricians nec	4222-A	0601-0903	Electrical Inspector (sp)
6301-D	0303-0113	Eddy Current Testing Technician (sp)	2047-B	0305-0301	Electrical Instrument Technician (sp)
6201-A	0713-0701	Edge Bander Operator (sp)	6103-A	0703-0901	Electrical Mechanic
6721-A	0707-1101	Edge Gilder/Finisher (sp)	2042-C	0203-1105	Electrical Power Engineer
6205-Z	1007-0599	Edge Lipping Machine Operator, Particleboard Manufacture (sp)	6109-Z	*	Electrical Trade Occupations nec
6404-H	1009-0313	Edge Polisher (sp)	6119-A	0703-1505	Electrical and Electronic Signal Mechanic (sp)
6623-D	1011-0905	Edge Trimmer (sp)	6190-Z	*	Electrical/Telecommunication Trades Assistants nec
6203-I	1007-0107	Edgerman/woman	6103-A	0703-0901	Electrician (a)
6203-C	0905-1113	Edgerman/woman (Remote Control)	6104-A	0703-0501	Electrician, Automotive (a)
1023	0103-0700	Editor, Newspaper/Periodical (sp)	6109-A	0703-1501	Electrician, Special Class
1020	0103-0100	Editor-in-Chief (sp)	2403-A	0311-0501	Electrocardiographic Technician (sp)
3019-Z	0215-0599	Editorial Assistant (sp)	2403-Z	0311-0599	Electroencephalographic Technician (sp)
3010-C	0215-0505	Editorial Writer (sp)	6015-B	0701-0305	Electroformer
2330-A	0217-0903	Education Officer	6015-B	0701-0305	Electroformer, Phonograph Record Masters (sp)
2130-Z	0217-0903	Education Officer (Museum and Art Gallery) (sp)	4263-B	0607-0103	Electrologist
2331-A	0217-0903	Education Officer, Curriculum Development (TAFE)	6002-B	1001-0509	Electrolytic Cell Attendant
2330-A	0217-0903	Education Officer, Planning (sp)	6002-B	1001-0509	Electrolytic Cell Attendant (Gold) (sp)
2330-A	0217-0903	Education Officer, Special Education (sp)	6002-B	1001-0509	Electrolytic Refiner (Copper) (sp)
2331-B	0213-0505	Education Officer, Staff Development (TAFE)	6002-B	1001-0509	Electrolytic Refiner (Excluding Aluminium) (a)
2339-Z	0217-0901	Education Researcher (sp)	6002-B	1001-0509	Electrolytic Refiner (Silver) (sp)
2339-Z	0217-0901	Educational Research Officer	2002-Z	0201-0501	Electromagnetic Physicist (sp)
2111-A	0211-0301	Educational Counsellor (sp)	4022-Z	*	Electronic Data Processing Equipment Operators nec
2100-B	0217-0103	Educational Economist (sp)	1026-C	0103-1305	Electronic Data Processing Manager (Lower Level)
2101-C	0217-0305	Educational Psychologist	1026-B	0103-1303	Electronic Data Processing Manager (Middle Level)
6524-E	1013-0909	Effet Boiler Operator (sp)	1026-A	0103-1301	Electronic Data Processing Manager (Senior Level)
6524-E	1013-0909	Effet Man/Woman (sp)	2042-D	0203-1107	Electronic Engineer
5001-B	0803-0103	Egg Plant Grower (sp)	3023-C	1203-0505	Electronic Music Instrumentalist (sp)
6534-B	1013-1509	Egg Process Worker	6119-Z	*	Electronic Trade Occupations nec
5000-G	0801-0311	Egg Producer (a)	2046-I	0301-0505	Electronics Design Draftsman/woman (a)
6619-B	1011-0701	Elastic Attacher (sp)	2042-D	0203-1107	Electronics Design Engineer (sp)
1009-Z	0101-0301	Elected and Appointed Government Officials nec, Other (a)	2047-G	0305-0501	Electronics Detail Draftsman/woman (a)
6001-Z	0909-0399	Electric Arc Furnace Operator (sp)	2047-G	0305-0501	Electronics Engineering Drafting Assistant (a)
6001-Z	0909-0399	Electric Arc Furnaceman (sp)	2046-I	0301-0505	Electronics Engineering Draftsman/woman (a)
5332-B	0907-0305	Electric Logging Operator (a)	2046-C	0301-0505	Electronics Engineering Technical Officer (a)
6101-A	0703-0101	Electric Railway Linesman/woman (sp)	2047-C	0305-0501	Electronics Engineering Technician
7021-A	0901-0701	Electric Train Driver (sp)	6015-A	0701-0301	Electroplater, First Class
6036-A	1003-0903	Electric-Arc Welder	6016-A	1003-0701	Electroplater, Second Class
4099-E	0499-9903	Electric-Meter Reader (sp)	6082-C	1003-1105	Electroplater, Third Class (sp)
6102-D	0703-0307	Electrical Appliance Servicer (a)			
6103-A	0703-0901	Electrical Contractor (sp)			
2046-H	0301-0503	Electrical Design Draftsman/woman (a)			

Code A	Code B	TITLE	Code A	Code B	TITLE
6721-C	0707-1301	Electrotypist (sp)	2042-C	0203-1105	Engineer, Design (Transmission Line) (sp)
2002-Z	0201-0501	Elementary Particle Physicist (sp)	2040-A	0203-0701	Engineer, Design (Water Treatment) (sp)
6801-D	0903-0107	Elevating Scraper Operator (a)	2042-C	0203-1105	Engineer, Distribution (sp)
6109-B	0703-1503	Elevator Mechanic (a)	2041-C	0203-0905	Engineer, District Road (sp)
6109-B	0703-1503	Elevator Service Mechanic (sp)	2045-Z	0203-1999	Engineer, Drilling Fluids (sp)
4290-B	0611-0103	Embalmer	2042-Z	0203-1199	Engineer, Electrical (Mines) (sp)
4099-Z	0499-9907	Embossing Machine Operator (sp)	2042-A	0203-1101	Engineer, Electrical (Research) (a)
2012-A	0201-1101	Embryologist (sp)	2042-C	0203-1105	Engineer, Electrical Power (a)
6016-C	0715-0101	Emery Buffer (sp)	2042-D	0203-1107	Engineer, Electronics (a)
1025	0103-1100	Employee Relations Manager (sp)	2045-D	0203-1501	Engineer, Environmental (sp)
1025	0103-1100	Employee Relations Superintendent (sp)	2040-B	0203-0703	Engineer, Ethylene Production (sp)
1032-E	0499-0505	Employment Interviewer (a)	2044-B	0203-1701	Engineer, Hydrometallurgical (sp)
1032-E	0499-0505	Employment Officer	2043-E	0203-1309	Engineer, Industrial (a)
4091-A	0499-0501	Employment Records Clerk (a)	2040-B	0203-0703	Engineer, Lead Smelting (sp)
5001-B	0803-0103	Endive Grower (sp)	2042-Z	0203-1199	Engineer, Logging (Fluids Drilling) (sp)
6801-H	0903-0127	Endless-Bucket Dredge Operator (sp)	2042-C	0203-1105	Engineer, Maintenance (Electrical) (sp)
2012-L	0201-1123	Endocrinologist (sp)	2041-C	0203-0905	Engineer, Maintenance (Sewerage) (sp)
2402-B	0205-0503	Endodontist (sp)	2043-D	0203-1307	Engineer, Maintenance (sp)
4221-D	0601-0915	Enforcement Officer, Fisheries and Wildlife (a)	2044-A	0203-1907	Engineer, Materials (a)
9005-A	0905-0501	Engine Driver (Except Transport)	2043-B	0203-1303	Engineer, Mechanical (Construction) (a)
7021-A	0901-0701	Engine Driver, Railway (a)	2043-C	0203-1305	Engineer, Mechanical (Design) (a)
7019-A	0307-9907	Engineer Officer, Ship (a)	2043-D	0203-1307	Engineer, Mechanical (Operations) (a)
2045-A	0203-1901	Engineer, Aeronautical (a)	2043-D	0203-1307	Engineer, Mechanical (Power Station) (sp)
2045-B	0203-1903	Engineer, Agricultural (a)	2043-E	0203-1309	Engineer, Mechanical (Production) (a)
2045-A	0203-1901	Engineer, Air Safety (sp)	2043-A	0203-1301	Engineer, Mechanical (Research) (a)
2045-A	0203-1901	Engineer, Aircraft Maintenance (sp)	2044-B	0203-1701	Engineer, Metallurgical (a)
2045-A	0203-1901	Engineer, Airframe (sp)	2043-E	0203-1309	Engineer, Methods (sp)
2045-A	0203-1901	Engineer, Airworthiness (sp)	2045-D	0203-1501	Engineer, Mine Planning (sp)
2040-B	0203-0703	Engineer, Ammonia Production (sp)	2045-D	0203-1501	Engineer, Mine Production (sp)
2042-B	0203-1103	Engineer, Antennae (sp)	2045-D	0203-1501	Engineer, Mining (a)
2042-C	0203-1105	Engineer, Appliances (sp)	2045-Z	0203-1999	Engineer, Mud (sp)
2043-E	0203-1309	Engineer, Automotive Production (sp)	2044-B	0203-1701	Engineer, Ore Dressing (sp)
2043-C	0203-1305	Engineer, Boiler Design (sp)	2045-Z	0203-1999	Engineer, Petroleum (sp)
2043-B	0203-1303	Engineer, Boiler Erection (sp)	2043-D	0203-1307	Engineer, Plant (sp)
2044-A	0203-1907	Engineer, Ceramics (sp)	2044-A	0203-1907	Engineer, Polymer (sp)
2040-A	0203-0701	Engineer, Chemical (Design) (a)	2042-C	0203-1105	Engineer, Power Station (sp)
2040-B	0203-0703	Engineer, Chemical (Manufacturing) (a)	2042-B	0305-9999	Engineer, Project (Air-Conditioning) (sp)
2040-B	0203-0703	Engineer, Chemical (Production) (a)	2043-C	0203-1305	Engineer, Pump Design (sp)
2040-C	0203-0705	Engineer, Chemical (Research) (a)	2044-B	0203-1701	Engineer, Pyrometallurgical (sp)
2040-A	0203-0701	Engineer, Chemical Project (sp)	2043-E	0203-1309	Engineer, Quality Control (sp)
2041-A	0203-0901	Engineer, Civil (Construction) (a)	2042-B	0203-1103	Engineer, Radio (sp)
2041-B	0203-0903	Engineer, Civil (Design) (a)	2040-C	0203-0705	Engineer, Research (Environmental) (sp)
2041-C	0203-0905	Engineer, Civil (Operations) (a)	2040-C	0203-0705	Engineer, Research (Polymerisation) (sp)
2041-D	0203-0907	Engineer, Civil (Research) (a)	2040-C	0203-0705	Engineer, Research (Separation Processes) (sp)
2040-A	0203-0701	Engineer, Combustion (sp)	2040-C	0203-0705	Engineer, Research (Systems) (sp)
2042-B	0203-1103	Engineer, Communications (a)	2043-E	0203-1309	Engineer, Safety (sp)
2042-D	0203-1107	Engineer, Computer (sp)	2040-B	0203-0703	Engineer, Sewage Treatment (sp)
2041-A	0203-0901	Engineer, Construction (Bridge) (sp)	2042-C	0203-1105	Engineer, Switchgear (sp)
2042-C	0203-1105	Engineer, Construction (Power Line) (sp)	2042-D	0203-1107	Engineer, Systems (sp)
2042-C	0203-1105	Engineer, Construction (Power Station) (sp)	2042-B	0203-1103	Engineer, Telecommunication (sp)
2041-A	0203-0901	Engineer, Construction (Railways) (sp)	2042-D	0203-1107	Engineer, Telemetry (sp)
2041-A	0203-0901	Engineer, Construction (Sewerage) (sp)	2042-B	0203-1103	Engineer, Television (sp)
2042-C	0203-1105	Engineer, Contracts (Electrical) (sp)	2043-C	0203-1305	Engineer, Tool Design (sp)
2043-B	0203-1303	Engineer, Contracts (Mechanical) (sp)	2041-C	0203-0905	Engineer, Water Supply Distribution (sp)
2041-B	0203-0903	Engineer, Design (Bridge) (sp)	2046-Z	*	Engineering Drafting and Other Technical Officers nec
2040-A	0203-0701	Engineer, Design (Control Systems) (sp)	2001-A	0201-0301	Engineering Geologist (sp)
2042-D	0203-1107	Engineer, Design (Electronics) (sp)	2001-B	0201-0303	Engineering Geophysicist (sp)
2041-B	0203-0903	Engineer, Design (Hydraulic) (sp)	1027-C	0103-1505	Engineering Manager (Lower Level)
2040-A	0203-0701	Engineer, Design (Petrochemical Processes) (sp)	1027-B	0103-1503	Engineering Manager (Middle Level)
2041-B	0203-0903	Engineer, Design (Pipeline) (sp)	1027-A	0103-1501	Engineering Manager (Senior Level)
2042-D	0203-1107	Engineer, Design (Process Control) (sp)	2049-Z	*	Engineering Occupations nec
2041-B	0203-0903	Engineer, Design (Road) (sp)	2030-A	0213-0701	Engineering Programmer (sp)
2041-B	0203-0903	Engineer, Design (Sewerage) (sp)	2049-C	0301-0599	Engineering Technical Officer Trainee
2041-B	0203-0903	Engineer, Design (Structural) (sp)	2049-D	0305-9999	Engineering Technician Trainee
2042-C	0203-1105	Engineer, Design (Switchgear) (sp)	2047-A	0305-0101	Engineering Technician, Civil
2042-C	0203-1105	Engineer, Design (Transformer) (sp)			

Code A	Code B	TITLE	Code A	Code B	TITLE
2047-C	0305-0501	Engineering Technician, Communications (sp)	5323-Z	*	Excavating and Hauling Occupations, Open Cut Mining nec
2047-B	0305-0301	Engineering Technician, Electrical	5323-C	0903-0101	Excavator Operator (a)
2047-C	0305-0501	Engineering Technician, Electronics	4230-A	0105-1107	Executive Chef
2047-D	0305-0701	Engineering Technician, Mechanical	1020	0103-0100	Executive Director (sp)
2047-Z	*	Engineering Technicians and Drafting Assistants nec	4240-C	0105-0915	Executive Housekeeper
2049-A	0499-9921	Engineering Tracer	1010-C	0103-1900	Executive Officer (Public Service) (sp)
2049-B	0203-1999	Engineering Trainee	2129-Z	0211-0999	Executive Officer, Legal Professional Body (sp)
2045-Z	*	Engineers (Other) nec	1023	0103-0700	Executive Producer (Broadcasting) (sp)
2040-Z	*	Engineers, Chemical nec (a)	1023	0103-0700	Executive Producer (Film) (sp)
2041-Z	*	Engineers, Civil nec (a)	4230-B	0105-1107	Executive Sous-Chef (a)
2302-A	0207-0513	English Master/Mistress (sp)	6812-B	0705-0103	Exhibition/Display Stand Carpenter (sp)
2414-Z	*	Enrolled Nurses nec	2130-Z	0217-9999	Exhibitions Officer (Museum and Art Gallery) (sp)
2012-G	0201-1113	Entomologist	1027	0103-1500	Experienced Engineer, Chemical Engineering (sp)
4099-Z	0499-9909	Envelope Sealing and Imprinting Tender (sp)	1027	0103-1500	Experienced Engineer, Civil Engineering (sp)
2000-D	0201-0107	Environmental Chemist (sp)	1027	0103-1500	Experienced Engineer, Electrical Engineering (sp)
2045-D	0203-1501	Environmental Engineer (sp)	1027	0103-1500	Experienced Engineer, Industrial Engineering (sp)
2040-C	0203-0705	Environmental Research Engineer (sp)	1027	0103-1500	Experienced Engineer, Mining Engineering (sp)
2009-A	0201-9901	Environmental Scientist	2002-D	0201-0507	Experimental Nuclear Physicist (sp)
2012-C	0201-1105	Enzyme Chemist (sp)	5000-D	0801-0305	Export Wether Producer (sp)
2420-C	0201-1305	Epidemiologist (sp)	5019-D	0899-9905	Expert, Sheep Shearing Machinery (a)
2046-I	0301-0505	Equipment Design Draftsman/woman (sp)	2001-A	0201-0301	Exploration Geologist (sp)
6533-A	1013-0301	Equipment Operator, Milk Processing (a)	2001-B	0201-0303	Exploration Geophysicist (sp)
5332-Z	*	Equipment Operators, Fluids Drilling (Other) nec	5324-D	0909-1105	Explosives Truck Operator (sp)
5304-Z	*	Equipment Operators Underground Mining (Except Coal) (Other) nec	4032-B	0407-0303	Export Freight Clerk
2101-D	0217-0307	Ergonomist (sp)	6603-B	0715-2505	Export Hide Classer (sp)
4217-B	0601-1103	Escort, Armoured Car (sp)	1022	0103-0500	Export Manager (sp)
6302-H	1005-2101	Essential Oil Distiller (sp)	6603-B	0715-2505	Export Skin Classer (sp)
6302-A	1005-2107	Esterification Operator (sp)	2010-A	0201-0701	Extension Officer (a)
3000-C	0215-0105	Etcher (sp)	6892-C	1101-1107	Exterior Cladding Installer (Buildings) (sp)
2040-B	0203-0703	Ethylene Production Engineer (sp)	4299-F	0611-9907	Exterminator, Pests (a)
2209-Z	1201-0199	Evangelist (sp)	6504-D	1013-1107	Extract Maker (sp)
6524-E	1013-0909	Evaporator Boiler (sp)	2044-B	0203-1701	Extractive Metallurgist (a)
6533-B	1013-0303	Evaporator/Spray Dryer Operator	4254-A	1101-2701	Extractor Operator (Washing) (sp)
6514-A	1013-1301	Eviscerator (a)	6525-Z	1013-0999	Extraneous Matter Hand (Sugar Milling) (sp)
6082-G	1015-0101	Examiner (Metal Products) (a)	6312-B	1005-0103	Extruder Operator (Plastics) (a)
7000-B	0307-0303	Examiner of Aircrew	6404-F	1009-0309	Extruder Operator, Clay Products
6612-E	1015-0129	Examiner, Apparel (Textiles) (a)	6312-B	1005-0103	Extruding Machine Operator (Plastics)
6191-C	1015-0107	Examiner, Electrical and Electronic Equipment (a)	6311-A	0701-0901	Extruding Machine Setter (Plastics)
6319-A	1015-0115	Examiner, Plastics Products	6013-A	1003-0307	Extrusion Press Operator, Metal
6322-Z	1015-0111	Examiner, Rubber Products (sp)	6623-B	1011-0907	Eyelet Machine Operator (sp)

## F

2004-D	0301-0107	Fabric Design Technologist (sp)			Processing (sp)
6605-C	1011-0505	Fabric Weaver	8020-D	1101-2905	Factory Hand/Labourer, Joinery (sp)
5323-C	0903-0101	Face-Shovel Operator (a)	8020-D	1101-2905	Factory Hand/Labourer, Joinery Manufacture
6063-B	0713-1301	Faceter (a)	8020-A	1101-2901	Factory Hand/Labourer, Metal Processing
9019-A	0405-0309	Facsimile Operator (sp)	8020-J	1101-2915	Factory Hand/Labourer, Milk Processing (sp)
8020-H	1101-2911	Factory Hand/Labourer, Cement Plant	8020-F	1101-2915	Factory Hand/Labourer, Paint Factory (sp)
8020-J	1101-2919	Factory Hand/Labourer, Cheese Processing (sp)	8020-B	1101-2907	Factory Hand/Labourer, Particle Board Manufacture (sp)
8020-F	1101-2915	Factory Hand/Labourer, Chemical Plant	8020-F	1101-2915	Factory Hand/Labourer, Plastics Factory (sp)
8020-G	1101-2911	Factory Hand/Labourer, Clay Processing	8020-B	1101-2907	Factory Hand/Labourer, Plywood Manufacture (sp)
8020-H	1101-2911	Factory Hand/Labourer, Concrete Plant (a)	8020-B	1101-2907	Factory Hand/Labourer, Pulp Manufacture (sp)
8020-D	1101-2915	Factory Hand/Labourer, Cooperage (sp)	8020-E	1101-2915	Factory Hand/Labourer, Pulp, Papermaking and Paper Product Fabricating
8020-J	1101-2919	Factory Hand/Labourer, Dairy Processing	8020-F	*	Factory Hand/Labourer, Rubber Processing Plant (sp)
8020-D	1101-2905	Factory Hand/Labourer, Furniture Manufacture (sp)	8020-B	1101-2907	Factory Hand/Labourer, Veneer Dryer (sp)
8020-B	1101-2907	Factory Hand/Labourer, Hardboard Manufacture (sp)	8020-B	1101-2907	Factory Hand/Labourer, Wood Processing
8020-B	1101-2907	Factory Hand/Labourer, Hot Press (Wood Processing) (sp)	8020-D	1101-2905	Factory Hand/Labourer, Wood Products Fabricating
8020-J	1101-2919	Factory Hand/Labourer, Ice Cream			

Code A	Code B	TITLE	Code A	Code B	TITLE
8020-D	1101-2905	Factory Hand/Labourer, Wood Products Manufacture	5000-B	0801-0301	Feedlotter (sp)
8020-Z	*	Factory Hands/Labourers nec	5212-A	0903-0501	Feller-Buncher Operator (sp)
1023	0103-0700	Factory Manager (sp)	8020-M	1101-2921	Fellmongery Hand (sp)
1023	0103-0700	Factory Superintendent (sp)	6890-E	0715-1109	Felter, Boiler and Pipe (a)
1020	0103-0100	Faculty Head (sp)	6606-B	1011-0517	Feltmaker (a)
1020	0103-0100	Faculty Secretary (sp)	6892-A	1101-1109	Fence Erector
2120-B	0211-0503	Family Court Judge (sp)	6892-A	1101-1109	Fencing Contractor (a)
2111-B	0211-0303	Family Law Court Counsellor	6302-A	1005-2107	Fermentation Operator (sp)
5002-A	0899-0301	Farm Apprentice	6331-C	1005-0905	Fermenter, Antibiotics
2010-D	0201-0707	Farm Consultant	7011-E	0307-0709	Ferry Captain (a)
5014-B	1101-3103	Farm Hand, Apple Growing (sp)	7014-A	0905-0503	Ferry Engine Driver (sp)
5014-A	1101-3101	Farm Hand, Beef Cattle Farm (sp)	7013-A	1101-3501	Ferry Hand (sp)
5014-A	1101-3101	Farm Hand, Cattle/Wheat (sp)	7011-E	0307-0709	Ferry Master (a)
5014-B	1101-3103	Farm Hand, Citrus Fruit Growing (sp)	7013-A	1101-3501	Ferryman/woman (sp)
5014-A	1101-3101	Farm Hand, Dairy Farm (sp)	6302-B	1005-2115	Fertiliser Mixer (sp)
5014-A	1101-3101	Farm Hand, Field Crop Growing (sp)	6803-D	1101-1701	Fettler (a)
5014-B	1101-3103	Farm Hand, Fruit and Vegetables (Horticultural Crops)	3003-Z	0715-1999	Fibre Craftworker (sp)
5014-A	1101-3101	Farm Hand, Goat Farm (sp)	6404-B	1009-0303	Fibre-Cement Control Hand (sp)
5014-B	1101-3103	Farm Hand, Grape Growing (sp)	6404-B	1009-0303	Fibre-Cement Moulder (sp)
5014-A	1101-3101	Farm Hand, Horse Farm (sp)	6404-B	1009-0303	Fibre-Cement Treater/Mixer (sp)
5014-A	1101-3101	Farm Hand, Mixed Livestock Farm (sp)	6892-B	1101-1105	Fibreglass Installer (sp)
5014-A	1101-3101	Farm Hand, Mixed Produce (sp)	6815-B	0705-0703	Fibrous Plaster Fixer (a)
5014-A	1101-3101	Farm Hand, Pig Farm (sp)	6891-A	1101-1101	Fibrous Plaster Fixers' Assistant (sp)
5014-B	1101-3103	Farm Hand, Potato Growing (sp)	6406-A	1009-0317	Fibrous Plaster Maker (sp)
5014-A	1101-3101	Farm Hand, Poultry Farm (Egg Production) (sp)	6815-B	0705-0703	Fibrous Plastering Contractor (sp)
5014-A	1101-3101	Farm Hand, Poultry Farm (Meat Production) (sp)	6815-B	0705-0703	Fibrous Plastering Sub-contractor (sp)
5014-A	1101-3101	Farm Hand, Poultry Farm (Meat Production) (sp)	5399-Z	1101-1901	Field Assistant, Geological Survey (sp)
5014-A	1101-3101	Farm Hand, Poultry Farm (Meat Production) (sp)	2015-A	0303-0301	Field Crop Technician (sp)
5014-A	1101-3101	Farm Hand, Poultry Farm (Meat Production) (sp)	6524-Z	*	Field Crops Product Processing Machine Operators nec
5014-A	1101-3101	Farm Hand, Sugar Cane Growing (sp)	4222-G	0601-0931	Field Liason Officer (Travel Accommodation) (a)
5014-A	1101-3101	Farm Hand, Tobacco Growing (sp)	4223-B	0601-0941	Field Manager, Postal Services
5014-B	1101-3103	Farm Hand, Tomato Growing (sp)	2053-D	0301-0705	Field Map Editor (sp)
5014-A	1101-3101	Farm Hand, Wheat/Sheep (sp)	5000-Z	0803-0103	Field Pea Grower (sp)
8030-A	1101-3111	Farm Labourer	6504-A	1013-1199	Field Pea Splitter (sp)
5013-A	0903-0901	Farm Machinery Contractor (sp)	1022	0103-0500	Field Sales Manager (sp)
5013-A	0903-0901	Farm Machinery Operator	4100-B	0105-0505	Field Supervisor (Insurance)
2100-C	0217-0105	Farm Management Economist (sp)	4100-B	0105-0505	Field Unit Manager (Insurance) (a)
5000-B	0801-0301	Farm Manager, Beef Cattle (sp)	5001-A	0803-0101	Fig Grower (sp)
5000-J	0801-0101	Farm Manager, Cereal Grain, Oilseed and/or Protein Crop (sp)	4041-D	0409-0107	File Clerk
5000-C	0801-0303	Farm Manager, Dairy (sp)	4041-D	0409-0107	File Clerk, Correspondence (sp)
5000-E	0801-0307	Farm Manager, Goat (sp)	4041-D	0409-0107	File Clerk, Drawings (sp)
5000-F	0801-0309	Farm Manager, Pig (sp)	4041-D	0409-0107	File Clerk, Maps and Plans (sp)
5000-G	0801-0311	Farm Manager, Poultry Egg Production (sp)	4041-B	0409-0103	File and Classification Clerk
5000-D	0801-0305	Farm Manager, Sheep (sp)	6513-A	1013-0501	Filler Operator (sp)
5000-K	0801-0103	Farm Manager, Sugar Cane (sp)	4223-Z	0601-0999	Film Censor (sp)
5000-L	0801-0105	Farm Manager, Tobacco (sp)	3010-C	0215-0507	Film Critic (sp)
5010-A	0899-0501	Farm Overseer (a)	6394-A	1005-1901	Film Developer (sp)
4221-B	0601-0909	Farm Products Officer (sp)	3020-E	0215-0909	Film Editor
5019-Z	*	Farm and Related Occupations nec	6394-A	1005-1901	Film Examiner (sp)
5014-A	1101-3101	Farm/Station Hand, Livestock and/or Field Crops	6394-A	1005-1901	Film Moulder (sp)
5000-A	0801-0501	Farmer, Mixed Produce	6394-A	1005-1901	Film Splicer/Cutter (sp)
5009-Z	*	Farmers and Stockowners nec	6394-B	1005-1903	Film Spooler
5012-D	0715-0701	Farrier (Non-Apprenticed)	6394-A	1005-1901	Film/Photograph Enlarger (sp)
3001-A	0215-0301	Fashion Designer	5343-F	1001-0311	Filter Operator (Mineral Ore Treating)
3000-B	0215-0103	Fashion Photographer (sp)	6399-C	0905-1133	Filter Operator (Water Purification) (sp)
4233-C	0603-0103	Fast Food Preparer (a)	6406-C	1009-0321	Filter Press Attendant, Clay (sp)
5000-D	0801-0305	Fat Lamb Producer (sp)	6302-I	1005-2117	Filter Press Man/Woman (a)
6513-G	1013-0513	Fat Refiner (sp)	6302-I	1005-2117	Filter Press Operator (Chemicals)
5000-B	0801-0301	Fattener (Beef Cattle) (sp)	5343-F	1001-0311	Filtration Operator (a)
3010-C	0215-0507	Feature Reporter (sp)	6399-D	0905-1135	Filtration Plant Operator (a)
3010-A	0215-0501	Features Editor (sp)	6612-E	1015-0129	Final Inspector, Garments (sp)
2120-B	0211-0503	Federal Court Judge (sp)	1021	0103-0300	Finance Controller (sp)
1000-A	0101-0101	Federal Minister (sp)	1021	0103-0300	Finance Director (sp)
5000-B	0801-0301	Feed Lot Cattle Farmer (sp)	3010-A	0215-0501	Finance Editor (sp)
8020-B	1101-2907	Feeder, Veneer Dryer (sp)	1021	0103-0300	Finance Manager (sp)

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

\*: only coded in the other structure

Code A	Code B	TITLE	Code A	Code B	TITLE
1035-Z	*	Finance and Investment Support Occupations nec	5101-Z	1101-3501	Fishermen/women, Deckhands on Sea-Going Vessels nec
1030-C	0213-0105	Financial Accountant	5332-C	0909-0909	Fishing Tool Operator
1021	0103-0300	Financial Director (sp)	5109-Z	*	Fishing and Hunting Occupations nec
2100-E	0217-0109	Financial Economist	6023-C	0701-0707	Fitter
1021-C	0103-0305	Financial Manager (Lower Level)	6612-G	0715-2303	Fitter (Garments)
1021-B	0103-0303	Financial Manager (Middle Level)	6023-A	0701-0703	Fitter and Turner (a)
1021-A	0103-0301	Financial Manager (Senior Level)	6081-A	1003-1101	Fitter's Assistant (sp)
1021	0103-0300	Financial Manager (sp)	6612-G	0715-2303	Fitter, Clothing (a)
1021	0103-0300	Financial Manager, State (sp)	6023-C	0701-0707	Fitter-Assembler (a)
1021	0103-0300	Financial Planning Manager (sp)	6023-A	0701-0703	Fitter-Machinist
3001-D	0215-0307	Fine Furnisher (a)	6023-B	0701-0705	Fitter-Mechanic (a)
4263-A	0607-0101	Fingernail Applicator (sp)	6023-B	0701-0705	Fitter-Welder (Maintenance) (sp)
4213-D	0601-0107	Fingerprint Examiner (sp)	6023-C	0701-0707	Fitter-Welder (Production) (sp)
3002-A	0311-0701	Finished Artist	1034-C	0501-0105	Fixed Interest Securities Dealer (sp)
6721-A	0707-1101	Finisher, Books (sp)	6812-B	0705-0103	Fixer, Carpentry (a)
4255-A	1101-2701	Finisher, Laundry (a)	6812-B	0705-0103	Fixing Carpenter
6721-A	0707-1101	Finisher/Bookbinder (sp)	6209-I	1007-0111	Flake Cutter Tender (a)
3002-A	0311-0701	Finishing Artist (a)	3023-C	1203-0505	Flautist (sp)
6812-B	0705-0103	Finishing Carpenter (a)	6504-D	1013-1107	Flavour Maker (sp)
6404-H	1009-0313	Finishing Machinist, Stone (sp)	1023	0103-0700	Fleetmaster/mistress (sp)
5201-A	1101-3301	Fire Look-out (sp)	8020-M	1101-2921	Flesher Hand (sp)
4211-D	0105-0715	Fire Prevention Officer	6702-C	0707-0307	Flexographic Platemaker (a)
4211-D	0105-0715	Fire Protection Engineer (a)	6713-A	0707-0901	Flexographic and/or Gravure Printing Machinist
4222-H	0601-0933	Fire Safety Inspector	4294-B	0611-0703	Flight Attendant
4211-C	0105-0713	Fire Station Officer (sp)	7009-A	0307-9901	Flight Engineer
4211-D	0105-0715	Fire and Safety Officer (a)	7000-B	0307-0303	Flight Engineer Inspector (sp)
4214-B	0601-0303	Fire-Fighter (General)	4294-A	0611-0701	Flight Service Director
4213-D	0601-0107	Firearms Examiner (sp)	7002-B	0307-0503	Flight Service Officer, Government
7021-B	0901-0901	Fireman/woman, Diesel Engine (sp)	4294-B	0611-0703	Flight Steward (a)
7021-B	0901-0901	Fireman/woman, Freight Train (sp)	7000-A	0307-0301	Flight Surveyor (sp)
7021-B	0901-0901	Fireman/woman, Passenger Train (sp)	7001-F	0209-0713	Flight-Simulator Instructor/Instructress (sp)
7021-B	0901-0901	Fireman/woman, Railway (a)	6321-Z	1005-0599	Flipper Operator (sp)
1010-B	0103-1900	First Assistant Secretary (Government Department) (sp)	7030-D	0901-0503	Float Driver (sp)
4231-A	0711-0901	First Chef (a)	7101-Z	0907-0101	Floating Crane Operator (sp)
9005-A	0905-0501	First Class Engine Driver (Except Transport) (sp)	7101-A	0907-0101	Floating Crane Operator (sp)
4213-A	0601-0101	First Class Sergeant, Liquor and Gaming Branch (sp)	6801-H	0903-0127	Floating Pump Operator (sp)
6002-Z	0909-0399	First Helper, Furnace (sp)	6813-A	0713-3901	Floor Coverer (a)
7001-A	0307-0101	First Officer, Aircraft (sp)	6813-A	0713-3901	Floor Finisher (Carpet) (a)
6513-E	1013-0509	Fish Cooker	6813-A	0713-3901	Floor Layer (Carpet) (a)
4221-D	0601-0915	Fish Exports Inspector (sp)	6890-C	0715-1105	Floor Layer, Concrete (sp)
5109-C	1101-3705	Fish Farm Worker	3020-F	0215-0911	Floor Manager (Television)
6514-G	1013-1311	Fish Filleter	6812-A	0705-0101	Floor Sander (sp)
6513-F	1013-0511	Fish Plant Operator	6817-B	0705-1301	Floor Tiler (sp)
6514-H	1013-1313	Fish Process Worker	6817-B	0705-1301	Floor and Wall Tiler (a)
5102-D	1101-3503	Fish Trapper	6399-A	1099-9903	Floor-Covering Machine Operator (a)
4221-D	0601-0915	Fisheries Inspector	6812-C	0705-0105	Floorlayer, Timber (sp)
4221-C	0601-0913	Fisheries Officer (sp)	5335-B	0909-1103	Floorman/woman (sp)
2014-B	0301-0303	Fisheries Technical Officer (sp)	5020-Z	0803-0199	Floriculturist (sp)
4221-C	0601-0913	Fisheries and Wildlife Officer (a)	4130-K	0505-0121	Florist (sp)
5102-E	1101-3503	Fisherman/woman, Crab Pots and Dillies	5343-C	1001-0305	Flotation Operator
5101-H	1101-3501	Fisherman/woman, Abalone Shucker (Sheller)	6521-C	0711-0505	Flour Miller (sp)
5102-A	1101-3503	Fisherman/woman, Inland Waters and Estuary Net Fishing Vessel	6520-B	0105-1107	Flour Milling Supervisor (sp)
5101-C	1101-3501	Fisherman/woman, Longline and Dropline Vessel	6301-D	0303-0113	Flourescopic Testing Technician (sp)
5101-Z	1101-3501	Fisherman/woman, Pearl Diving (sp)	6404-G	1009-0311	Flower Pot Pressman/woman (sp)
5101-F	1101-3501	Fisherman/woman, Pots and Traps Fishing Vessel	2002-Z	*	Fluid-State Physicist (sp)
5101-G	1101-3501	Fisherman/woman, Scallop and Shell Dredging Vessel	5335-Z	0201-0501	Fluids Drilling Support Occupations nec
5101-A	1101-3501	Fisherman/woman, Sea-going Net Fishing Vessel	5339-Z	*	Fluids Drilling and Gas Occupations nec
5101-Z	1101-3501	Fisherman/woman, Spear Diving (sp)	7112-A	0909-0101	Fluids Handler
5101-E	1101-3501	Fisherman/woman, Squid Jigging Vessel	7001-D	0209-0713	Flying Instructor
5101-B	1101-3501	Fisherman/woman, Trolling and Handline Vessel	7001-D	0209-0713	Flying Instructor/Instructress, Fixed Wing Aircraft
5101-D	1101-3501	Fisherman/woman, Tuna Pole and Live Bait Vessel	7001-E	0209-0713	Flying Instructor/Instructress, Helicopter
			6892-B	1101-1105	Foam Insulator (sp)
			4259-A	1101-2701	Folding Machine Tender (sp)
			3023-E	1203-0509	Folk Singer (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
2012-I	0201-1117	Food Bacteriologist (sp)	6300-H	0105-1505	Foreman/woman, Chlorine Plant (sp)
6504-A	1013-1199	Food Centrifuge Operator (sp)	6300-E	0105-1505	Foreman/woman, Clarification (Chemicals) (sp)
2000-E	0201-0109	Food Chemist	64	0105-1515	Foreman/woman, Clay, Glass and Stone Processing and Fabricating Occupations
6504-D	1013-1199	Food Colouring Maker (sp)	6300-F	0105-1505	Foreman/woman, Cleaning Compounds (sp)
6504-A	1013-1199	Food Drying Machinery Operator (sp)	6620-A	0105-1111	Foreman/woman, Clicking Department(sp)
6504-A	1013-1199	Food Drying Operator (sp)	66	0105-1111	Foreman/woman, Clothing/Textile Tradespersons and Apprentices
6504-A	1013-1199	Food Grinding Machine Operator (sp)	5340-E	0105-1305	Foreman/woman, Coal Preparation Plant
6504-A	1013-1199	Food Grinding Operator (sp)	6300-G	0105-1505	Foreman/woman, Coating (sp)
6504-A	1013-1199	Food Mixing Machine Operator (sp)	6300-G	0105-1505	Foreman/woman, Coating and Calendering Occupations (Chemicals)
6504-A	1013-1199	Food Mixing Operator (sp)	6300-F	0105-1505	Foreman/woman, Compounding (sp)
6504-H	1013-1113	Food Packaging Machine Operator	6310-A	0105-1509	Foreman/woman, Compression/Transfer Moulding, Plastics
2000-E	0201-0109	Food Scientist/Technologist (a)	*	0105-1305	Foreman/woman, Continuous Plant Operating
6504-A	1013-1199	Food Separating Machine Operator (sp)	6300-C	0105-1505	Foreman/woman, Cooking (Chemical Recovery) (sp)
6504-A	1013-1199	Food Separating Operator (sp)	6210-Z	0105-1113	Foreman/woman, Cooperage (sp)
6504-A	1013-1199	Food Sieving Operator (sp)	6350-A	0105-1305	Foreman/woman, Cracking (sp)
6504-A	1013-1199	Food Size Grading Operator (sp)	7100-A	0105-1307	Foreman/woman, Crane Crew (sp)
4230-F	0105-0907	Food Supervisor	5340-A	0105-1501	Foreman/woman, Crushing Occupations (sp)
6504-A	1013-1199	Food Vacuum/Drum Filter Operator (sp)	6300-D	0105-1505	Foreman/woman, Crushing and Grinding Occupations (Chemicals)
4239-Z	*	Food and Beverage Preparation and Related Service Occupations, Other nec (a)	5340-A	0105-1501	Foreman/woman, Crushing and Screening Occupations (Mineral Ores)
4132-E	1101-9913	Food/Drink Machine Attendant (sp)	6620-A	0105-1111	Foreman/woman, Cutting Room (Shoemaking) (sp)
6504-B	1013-1103	Foods Extruder Operator	6200-A	0105-1113	Foreman/woman, Debarking Operations (sp)
3010-C	0215-0507	Foreign Correspondent (sp)	6350-A	0105-1305	Foreman/woman, Decarbonisation (sp)
1035-Z	0213-9999	Foreign Exchange Trader (sp)	6300-E	0105-1505	Foreman/woman, Dehydration (Chemicals) (sp)
6510-A	0105-1107	Foreman/woman, Abattoir (a)	6210-A	0105-1113	Foreman/woman, Detailed Joinery (sp)
6300-Z	0105-1505	Foreman/woman, Acid Plant (sp)	6300-H	0105-1505	Foreman/woman, Distillation (Chemicals) (sp)
6300-Z	0105-1505	Foreman/woman, Agricultural Chemicals (sp)	6350-A	0105-1305	Foreman/woman, Distillation (Petroleum Products) (sp)
6300-H	0105-1505	Foreman/woman, Alum Plant (sp)	6300-H	0105-1505	Foreman/woman, Distilling, Subliming and Carbonising Occupations (Chemicals)
6300-G	0105-1505	Foreman/woman, Artificial Leather Coating (sp)	6810-G	0105-1103	Foreman/woman, Drainers (sp)
6050-B	0105-1101	Foreman/woman, Automobile Fabricating, Assembling, Maintaining and Repairing	6300-C	0105-1505	Foreman/woman, Dryers (Chemicals) (sp)
6100-D	0105-1105	Foreman/woman, Automotive Electricians (a)	6600-F	0105-1111	Foreman/woman, Dyeing, Bleaching and Finishing Occupations
6300-F	0105-1505	Foreman/woman, Battery Paste (sp)	6100-B	0105-1105	Foreman/woman, Electrical Fitters (a)
6300-E	0105-1505	Foreman/woman, Bitumen Extraction Plant (sp)	6100-C	0105-1105	Foreman/woman, Electrical Mechanics (a)
6000-B	0105-1309	Foreman/woman, Blast Furnace (sp)	6100-Z	0105-1105	Foreman/woman, Electrical Tradespersons and Apprentices
5320-C	0105-1113	Foreman/woman, Blasting	6010-D	0105-1101	Foreman/woman, Electroplating/Anodising (sp)
6350-B	0105-1305	Foreman/woman, Blending and Shipping Crude Petroleum	6300-H	0105-1505	Foreman/woman, Evaporator (sp)
6310-A	0105-1509	Foreman/woman, Blow Moulding (Plastics) (sp)	6340-A	0105-1505	Foreman/woman, Explosives Mixing
6030-D	0105-1101	Foreman/woman, Boilermaking and Structural Steel	6340-A	0105-1505	Foreman/woman, Explosives Production Occupations
7120-A	0105-1519	Foreman/woman, Bottling (sp)	6300-B	0105-1505	Foreman/woman, Explosives Products, Sampling and Testing (sp)
6810-B	0105-1103	Foreman/woman, Bricklayers	6310-A	0105-1509	Foreman/woman, Extruding (Plastics) (sp)
6300-E	0105-1505	Foreman/woman, Brine (sp)	6300-Z	0105-1505	Foreman/woman, Fertilisers (sp)
6810-Z	0105-1103	Foreman/woman, Building Tradespersons and Apprentices	6310-A	0105-1509	Foreman/woman, Fibre Reinforced Plastics (sp)
6810-A	0105-1103	Foreman/woman, Building/Construction Site	6810-F	0105-1103	Foreman/woman, Fibrous Plasterers (sp)
6300-H	0105-1505	Foreman/woman, By-Products (Chemicals) (sp)	6300-E	0105-1505	Foreman/woman, Filtering, Straining and Separating Occupations (Chemicals)
6210-B	0105-1113	Foreman/woman, Cabinet-Making (sp)	6300-E	0105-1505	Foreman/woman, Filtration (Chemicals) (sp)
6300-G	0105-1505	Foreman/woman, Calendering (sp)	6200-C	0105-1113	Foreman/woman, Finger Jointing Operations (sp)
6210-Z	0105-1511	Foreman/woman, Cane Furniture Making (sp)	6200-H	0105-1511	Foreman/woman, Finishing Line Operations (Hardboard Manufacture) (sp)
6300-C	0105-1505	Foreman/woman, Carbon Processing (sp)	5200-A	0105-1707	Foreman/woman, Forestry (a)
6300-B	0105-1505	Foreman/woman, Carbon and Graphite Inspectors, Sampling and Testing (sp)	65	0105-1107	Foreman/woman, Food Tradespersons and Apprentices
6810-C	0105-1103	Foreman/woman, Carpenters and Joiners	65	0105-1513	Foreman/woman, Food and Beverage Processing Occupations
6810-D	0105-1103	Foreman/woman, Carpet Layers	6200-F	0105-1511	Foreman/woman, Forming Line Operations
6000-C	0105-1101	Foreman/woman, Casting (sp)			
6000-C	0105-1101	Foreman/woman, Casting Pit (sp)			
6350-A	0105-1305	Foreman/woman, Catalytic Reforming (sp)			
6300-H	0105-1505	Foreman/woman, Caustic Plant (sp)			
6000-A	0105-1505	Foreman/woman, Cell Room			
6310-A	0105-1509	Foreman/woman, Cellular Plastics (sp)			
6210-B	0105-1113	Foreman/woman, Chairmaking (sp)			
6350	0105-1505	Foreman/woman, Chemicals and Petroleum Process Occupations			
6200-C	0105-1113	Foreman/woman, Chipping and Flaking Operations (sp)			

Code A	Code B	TITLE	Code A	Code B	TITLE
		(Particleboard Manufacture) (sp)			Fabricating Occupations
7190-A	0105-1703	Foreman/woman, Freight Handlers (a)	6010-A	0105-1503	Foreman/woman, Metal Rolling Mill Occupations
7190-A	0105-1703	Foreman/woman, Freight Loading/unloading Occupations	6030	0105-1503	Foreman/woman, Metal Shaping and Forming Occupations (Except Machining)
7120-A	0105-1519	Foreman/woman, Fruit Juice (sp)	6030-E	0105-1101	Foreman/woman, Metal Spinning and Metalworking Machine Operating
6350-A	0105-1305	Foreman/woman, Furfural Treating (sp)	6010-D	0105-1101	Foreman/woman, Metal Spraying (sp)
6000-B	0105-1309	Foreman/woman, Furnace Occupations	6010-D	0105-1101	Foreman/woman, Metal Surface Finishing Occupations
6210-B	0105-1113	Foreman/woman, Furniture Manufacture	60	0105-1101	Foreman/woman, Metal Tradespersons and Apprentices
6010-D	0105-1101	Foreman/woman, Galvanising (sp)	6300-Z	0105-1505	Foreman/woman, Millroom (Chemicals) (sp)
6810-G	0105-1103	Foreman/woman, Gas Fitters (sp)	5340	0105-1501	Foreman/woman, Mineral Ore Treating Occupations
6300-G	0105-1505	Foreman/woman, Gasket Coating (sp)	6300-F	0105-1505	Foreman/woman, Mixing and Blending Occupations (Chemicals)
6200-A	0105-1113	Foreman/woman, General Sawmilling Operations	6000-C	0105-1101	Foreman/woman, Moulding (sp)
6200-Z	0105-1511	Foreman/woman, Gluing	6200-C	0105-1113	Foreman/woman, Moulding Mill (sp)
6300-H	0105-1505	Foreman/woman, Glycerine Refinery (sp)	6000-C	0105-1101	Foreman/woman, Moulding, Coremaking and Metal Casting Occupations
6350-B	0105-1305	Foreman/woman, Grease Manufacture (sp)	6000-C	0105-1101	Foreman/woman, Mouldyard (sp)
6300-F	0105-1505	Foreman/woman, Grease Plant (sp)	6300-H	0105-1505	Foreman/woman, Natural Gas Plant (sp)
5340-B	0105-1501	Foreman/woman, Grinding Occupations (Mineral Ores)	5330-B	0105-1309	Foreman/woman, Oil and Natural Gas Well Services
6300-D	0105-1505	Foreman/woman, Grinding and Packaging (sp)	6000-B	0105-1309	Foreman/woman, Open Hearth Furnace (sp)
6200-H	0105-1511	Foreman/woman, Hardboard Making and Related Operations	5320-A	0105-1501	Foreman/woman, Ore Grading
7100-A	0105-1307	Foreman/woman, Hoisting Occupations	53	0105-1311	Foreman/woman, Other Mining Occupations
7100-A	0105-1307	Foreman/woman, Hoisting and Loading Equipment Operators	*	0105-1303	Foreman/woman, Other Mobile Equipment Operators
6350-A	0105-1305	Foreman/woman, Hydro Treating (sp)	*	0105-1309	Foreman/woman, Other Stationary Equipment Operators
6300-B	0105-1505	Foreman/woman, Industrial Gases, Sampling and Testing (sp)	*	0105-1113	Foreman/woman, Other Tradespersons and Apprentices
6390-A	0105-1505	Foreman/woman, Industrial and Medical Gases Production Occupations	6300-H	0105-1505	Foreman/woman, Ovens (Chemicals) (sp)
6310-A	0105-1509	Foreman/woman, Injection/Compression/Transfer Moulding (Plastics) (sp)	7120-A	0105-1519	Foreman/woman, Packaging (sp)
6300-F	0105-1505	Foreman/woman, Ink Preparation (sp)	6810-E	0105-1103	Foreman/woman, Painters and Decorators
6300-B	0105-1505	Foreman/woman, Inspecting, Testing, Grading and Sampling Occupations (Chemicals)	6220-B	0105-1511	Foreman/woman, Papermaking and Finishing Occupations
6300-B	0105-1505	Foreman/woman, Inspection (Chemicals) (a)	6200-F	0105-1511	Foreman/woman, Particleboard Manufacture
6060-B	0105-1113	Foreman/woman, Jewellery and Silverware Non-Trades Workers	6800-B	0105-1303	Foreman/woman, Paving and Surfacing Plant Operating Occupations
6060-B	0105-1113	Foreman/woman, Jewellery and Silverware Trades Workers	*	0105-1511	Foreman/woman, Peeling
6210-A	0105-1113	Foreman/woman, Joinery Products Manufacture	6350-A	0105-1305	Foreman/woman, Petroleum Process Unit Operations
6200-D	0105-1309	Foreman/woman, Kiln Drying Operations (a)	6300-B	0105-1505	Foreman/woman, Petroleum Products, Sampling and Testing (sp)
6510-A	0105-1107	Foreman/woman, Knackery (a)	6300-F	0105-1505	Foreman/woman, Pharmaceutical Compounding (sp)
6600-D	0105-1111	Foreman/woman, Knitting Occupations	6300-B	0105-1505	Foreman/woman, Pharmaceutical Products, Sampling and Testing (sp)
6080-A	0105-1503	Foreman/woman, Labourers and Processworkers, Metal and Metal Products	6330-A	0105-1505	Foreman/woman, Pharmaceuticals Production Occupations
6200-C	0105-1113	Foreman/woman, Laminated Beam Production (sp)	6300-C	0105-1505	Foreman/woman, Phosphorus Processing (sp)
6300-G	0105-1505	Foreman/woman, Latex Carpetbacking Department (sp)	6391-A	0105-0111	Foreman/woman, Photographic Processing Occupations
4250-B	0105-1113	Foreman/woman, Laundering and Dry-Cleaning Occupations	6300-B	0105-1505	Foreman/woman, Physical Testing (sp)
6610-G	0105-1111	Foreman/woman, Leather and Canvas Workers	6210-Z	0105-1511	Foreman/woman, Picture Frame Making (sp)
6300-G	0105-1505	Foreman/woman, Linoleum Making (sp)	6300-Z	0105-1505	Foreman/woman, Pigments (sp)
5210-A	0105-1709	Foreman/woman, Log Inspecting, Measuring, Grading and Related Occupations (sp)	6300-A	0105-1505	Foreman/woman, Pilot Plant Occupations (Chemicals)
5210-A	0105-1709	Foreman/woman, Log Sorting, Moving and Related Occupations (sp)	6810-F	0105-1103	Foreman/woman, Plasterers
5210-A	0105-1709	Foreman/woman, Logging	6300-G	0105-1505	Foreman/woman, Plastic Film Coating (sp)
6200-B	0105-1113	Foreman/woman, Logyard (sp)	6310-A	0105-1509	Foreman/woman, Plastics Production Occupations
6510-A	0105-1107	Foreman/woman, Meatworks (a)	6300-B	0105-1505	Foreman/woman, Plastics Products, Sampling and Testing (sp)
6800-A	0105-1303	Foreman/woman, Mechanical Earthmoving Plant Operating Occupations	6810-G	0105-1103	Foreman/woman, Plumbers
6010-B	0105-1503	Foreman/woman, Metal Extruding and Drawing Occupations	6200-E	0105-1511	Foreman/woman, Plywood Making and Related
6010-C	0105-1503	Foreman/woman, Metal Heat Treating Occupations			
60	0105-1503	Foreman/woman, Metal Processing and			

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

\*: only coded in the other structure

Code A	Code B	TITLE	Code A	Code B	TITLE
		Operations			
6350-A	0105-1305	Foreman/woman, Polymerisation and Alkylation (sp)	6200-D	0105-1309	Foreman/woman, Timber Seasoning Operations
6200-H	0105-1511	Foreman/woman, Press Line Operations (Hardboard Manufacture) (sp)	6200-G	0105-1309	Foreman/woman, Timber Treating Operations
6200-F	0105-1511	Foreman/woman, Press Line Operations (Particleboard Manufacture) (sp)	6330-B	0105-1505	Foreman/woman, Toiletries Production Occupations
67	0105-1109	Foreman/woman, Printing Tradespersons and Apprentices	6050-B	0105-1111	Foreman/woman, Trimmers
5320-B	0105-1309	Foreman/woman, Production Drilling (Open Cut Mining)	6600-E	0105-1517	Foreman/woman, Tufting Occupations
6220-A	0105-1511	Foreman/woman, Pulp Preparing Occupations	5300-A	0105-1311	Foreman/woman, Underground Mine (Except Coal Mine)
6300-E	0105-1505	Foreman/woman, Purification (Chemicals) (sp)	6610-F	0105-1111	Foreman/woman, Upholsterers
6300-B	0105-1505	Foreman/woman, Quality Control (Chemicals) (a)	6300-H	0105-1505	Foreman/woman, Vacuum Pans (Chemicals) (sp)
6800-C	0105-1303	Foreman/woman, Railway Track Construction Occupations	6300-C	0105-1505	Foreman/woman, Varnish (sp)
6300-C	0105-1505	Foreman/woman, Reactor Unit (sp)	620	105-1511	Foreman/woman, Veneer
6300-F	0105-1505	Foreman/woman, Reagents (sp)	6300-F	0105-1505	Foreman/woman, Viscose (sp)
6100-E	0105-1105	Foreman/woman, Refrigeration and Air-Conditioning Mechanics (a)	6300-E	0105-1505	Foreman/woman, Viscose Filtration (sp)
7190-A	0105-1703	Foreman/woman, Road Freight Handling Occupations (sp)	6810-I	0105-1103	Foreman/woman, Wall and Floor Tile Layers
5340-D	0105-1309	Foreman/woman, Roasting Occupations (Mineral Ores)	6600-B	0105-1111	Foreman/woman, Warp Preparing Occupations
6300-C	0105-1505	Foreman/woman, Roasting, Cooking and Drying Occupations (Chemicals)	5340-C	0105-1501	Foreman/woman, Washing, Mixing, Separating and Filtering Occupations (Mineral Ores)
6810-H	0105-1103	Foreman/woman, Roof Slaters and Tilers	6600-C	0105-1111	Foreman/woman, Weaving Occupations
6300-G	0105-1505	Foreman/woman, Roofing Materials (sp)	6210-Z	0105-1511	Foreman/woman, Wood Carving (sp)
6310-A	0105-1509	Foreman/woman, Rotational Moulding (Plastics) (sp)	6200-J	0105-1113	Foreman/woman, Wood Machining (Furniture Manufacture)
6320-A	0105-1507	Foreman/woman, Rubber Production Occupations	6200-I	0105-1113	Foreman/woman, Wood Machining (Joinery Manufacture)
6300-B	0105-1505	Foreman/woman, Rubber Products, Sampling and Testing (sp)	6220	0105-1511	Foreman/woman, Wood and Paper Processing and Fabricating Occupations
6320-A	0105-1507	Foreman/woman, Rubber Tyres and Tubes (sp)	6200-K	0105-1113	Foreman/woman, Wood Patternmaking (Engineering)
6200-C	0105-1113	Foreman/woman, Sawmilling Operations (Dry Mill)	6200-K	0105-1113	Foreman/woman, Wood Patternmaking Operations
6200-B	0105-1113	Foreman/woman, Sawmilling Operations (Green Mill)	6210	0105-1511	Foreman/woman, Wood Products
6200-A	0105-1113	Foreman/woman, Shaping Operations (Sawmill) (sp)	6600-A	0105-1111	Foreman/woman, Yarn Manufacturing Occupations
6310-A	0105-1509	Foreman/woman, Sheet Fabrication (Plastics) (sp)	6600-Z	*	Foreman/woman, Yarn and Fabric Production Occupations nec
6620-A	0105-1111	Foreman/woman, Shoemaking and Repairing Occupations	6810-Z	*	Foremen/women, Construction Trade Occupations nec
6810-E	0105-1103	Foreman/woman, Signwriters (sp)	6800-Z	*	Foremen/women, Earthmoving, Paving and Railway Construction Plant Operating Occupations nec
6000-A	0105-1309	Foreman/woman, Smelting, Reduction and Converting Occupations (Mineral Ores)	6300-Z	*	Foremen/women, General Chemical Processing Occupations nec
6300-H	0105-1505	Foreman/woman, Soda Ash (sp)	7190-Z	*	Foremen/women, Other Materials Handling Occupations nec
6810-F	0105-1103	Foreman/woman, Solid Plasterers (sp)	6220-Z	*	Foremen/women, Pulp, Papermaking and Paper Product Fabricating Occupations nec
6350-A	0105-1305	Foreman/woman, Solvent Dewaxing (sp)	6200-Z	*	Foremen/women, Wood Processing and Machining Occupations nec
6200-B	0105-1113	Foreman/woman, Sorting and Stacking (Automatic) (sp)	6210-Z	0105-1511	Foremen/women, Wood Products Fabricating, Assembling and Repairing Occupations nec
6200-B	0105-1113	Foreman/woman, Sorting and Stacking (Manual) (sp)	5330-Z	*	Foremen/women/Supervisors, Fluids Drilling nec
6210-A	0105-1113	Foreman/woman, Standard Joinery (sp)	5340-Z	*	Foremen/women/Supervisors, Mineral Ore Treating Occupations nec
6300-B	0105-1505	Foreman/woman, Sterile Products, Sampling and Testing (sp)	5320-Z	*	Foremen/women/Supervisors, Open Cut Mining nec
7120-A	0105-0321	Foreman/woman, Stores (sp)	5310-Z	*	Foremen/women/Supervisors, Underground Coal Mining nec
7120-A	0105-0321	Foreman/woman, Stores and Packaging Occupations	5300-Z	*	Foremen/women/Supervisors, Underground Mining (Except Coal) nec
6210-Z	0105-1511	Foreman/woman, Stringed Musical Instrument Making	2000-D	0201-0107	Forensic Chemist (sp)
66	0105-1517	Foreman/woman, Textile Product Occupations	2420-C	0201-1305	Forensic Pathologist (sp)
6310-A	0105-1509	Foreman/woman, Thermoforming (Plastics) (sp)	2420-Z	0201-1305	Forensic Pathology Scientist (sp)
5210-A	0105-1709	Foreman/woman, Timber Cutting and Related Occupations (sp)	5219-A	1101-3309	Forest Assessor (a)
			2013-A	0201-0901	Forest Ecologist (sp)
			2012-G	0201-1113	Forest Entomologist (sp)
			4214-B	0601-0303	Forest Fire-Fighter (sp)
			5200-A	0105-1707	Forest Foreman/woman (a)
			2013-A	0201-0901	Forest Geneticist (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
5209-A	1101-3303	Forest Guard (a)	6541-B	1013-0701	Fruit Peeling Machine Operator (sp)
2013-A	0201-0901	Forest Hydrologist (sp)	8030-B	1101-0103	Fruit Picker, General (sp)
2013-A	0201-0901	Forest Manager (a)	6541-A	1013-0703	Fruit Pulp Cook (sp)
5200-A	0105-1707	Forest Overseer	4130-C	0505-0105	Fruit Shop Salesperson (sp)
5200-A	0105-1707	Forest Overseer, Harvesting and Marketing (sp)	5013-A	0903-0901	Fruit Tree Shaker Operator (sp)
5200-A	0105-1707	Forest Ranger (a)	4131-F	0505-0311	Fruit Vendor (sp)
5200-A	0105-1707	Forest Ranger, Harvesting and Marketing (sp)	5001-Z	*	Fruit and Vegetable Growers nec
2013-A	0201-0901	Forest Scientist (sp)	6505-B	1015-0133	Fruit and Vegetable Assessor (a)
5209-A	1101-3303	Forest Tree Marker (a)	6505-B	1015-0133	Fruit and Vegetable Classer
5201-A	1101-3301	Forest Worker (a)	6505-B	1015-0133	Fruit and Vegetable Grader (a)
5201-A	1101-3301	Forest Workman/woman (a)	6503-F	1013-0111	Fruit and Vegetable Juicer Operator
2013-A	0201-0901	Forester	6541-B	1013-0701	Fruit and Vegetable Machinery Operator
2013-A	0201-0901	Forestry Adviser (sp)	6542-A	1013-1501	Fruit and Vegetable Processer
5209-Z	*	Forestry Occupations nec	6505-B	1015-0133	Fruit and Vegetable Receiver (a)
5200-Z	*	Forestry Supervisors nec	7123-A	1101-0703	Fruit/Vegetable Packer (sp)
2015-D	0303-0307	Forestry Technical Officer (a)	4130-C	0505-0105	Fruiterer (sp)
2015-D	0303-0307	Forestry Technician	4130-C	*	Fruitologist (sp)
6031-C	0701-1305	Forger (a)	6513-G	1013-0513	Fugal Hand (sp)
6081-A	1003-1101	Forger's Assistant (Metal Processing) (sp)	6524-E	1013-0909	Fugal Operator (Sugar Processing) (sp)
6082-F	1003-0711	Forging Machine Operator (sp)	6524-E	1013-0909	Fugelman/woman (sp)
6031-C	0701-1305	Forging Smith	4299-F	0611-9907	Fumigator (sp)
7193-A	0903-0301	Fork Lift Driver	1039-A	0213-9903	Functions Officer (sp)
7193-Z	*	Fork Lift Drivers nec	4013-Z	0403-0599	Fund Administration Clerk, Superannuation (sp)
7193-A	0903-0301	Fork Truck Driver (a)	1039-E	0103-0100	Fund-Raising Consultant
6812-A	0705-0101	Form Setter (Carpentry) (sp)	4290-A	0611-0101	Funeral Arranger (a)
6205-D	1007-0505	Forming Line Operator, Hardboard Manufacture	4290-D	0611-0105	Funeral Attendant (a)
6205-B	1007-0503	Forming Line Operator, Particleboard Manufacture	4290-A	0611-0101	Funeral Director
6205-D	1007-0505	Forming Machine Attendant, First Class (a)	4290-D	0611-0105	Funeral Director's Assistant
1039-I	0213-9909	Forms Analyst (sp)	4290-D	0611-0105	Funeral Worker (a)
1039-I	0213-9909	Forms Analyst and Designer	6613-B	0715-2103	Fur Cutter
1039-I	0213-9909	Forms Designer (sp)	6603-D	0715-2503	Fur Grader
6812-A	0705-0101	Formwork Carpenter (sp)	6603-D	0715-2503	Fur Matcher (a)
6812-A	0705-0101	Formworker (Carpentry) (sp)	6613-A	0715-2101	Fur Tailor (a)
5212-C	0903-0505	Forwarder Operator	6613-B	0715-2103	Fur Trimmer (sp)
2003-B	0203-1703	Foundry Metallurgist (sp)	6811-B	0705-0303	Furnace Bricklayer (sp)
6222-A	1007-0903	Fourdrinier Machine Operator (sp)	6002-Z	0909-0399	Furnace Charger (sp)
6604-E	1011-0105	Frame Spinner (sp)	8020-A	1101-2901	Furnace Labourer (sp)
6812-C	0705-0105	Framer, Walls and Roof (a)	5344-B	0909-0303	Furnace Operator (Pellet Plant)
6812-C	0705-0105	Framing Carpenter (a)	6001-Z	0909-0399	Furnace Operator (Zinc) (sp)
1039-Z	0505-9999	Franchise Outlet Promoter (sp)	9005-B	0905-0509	Furnace Operator, Steam (a)
6392-C	0905-0705	Freeon Gas Liquefier (sp)	6001-Z	0909-0399	Furnace Operators and Smelt Hands (Ferrous; Non-Ferrous Metals) nec
7121-A	0407-0325	Freezer Storeman/woman (sp)	6410-A	0105-1113	Furnace Supervisor/Foreman/woman (Glass Processing) (sp)
4030-Z	0105-0319	Freight Centre Manager (sp)	6002-Z	*	Furnace and Electrolytic Cell Attendants and Pot Operators nec
7190-A	0105-1703	Freight Centre Manager, Rail (sp)	6001-Z	0909-0399	Furnaceman (Lead Smelting) (sp)
4032-Z	0407-0315	Freight Clerk (sp)	6001-Z	0909-0399	Furnaceman (Zinc) (sp)
4032-Z	0407-0399	Freight Clerk, Rail	6213-C	1007-0705	Furniture Assembler, First Class
7191-B	1101-0503	Freight Handler (Road or Rail)	6213-D	1007-0707	Furniture Assembler, Second Class
7191-Z	*	Freight Handling Occupations nec	3001-C	0215-0305	Furniture Designer (sp)
7029-D	0407-0323	Freight Traffic Controller (sp)	6212-F	0713-1109	Furniture Finisher
4032-D	0407-0307	Freight-Receiving Clerk (sp)	6211-D	0713-0901	Furniture Maker (a)
5001-B	0803-0103	French Bean Grower (sp)	7123-B	1101-0507	Furniture Packer
6212-F	0713-1109	French Polisher (sp)	6212-F	0713-1109	Furniture Polisher (a)
6801-E	0903-0115	Front-End Loader Operator	7192-B	1101-0505	Furniture Removalist's Assistant
4217-E	0601-1107	Front-of-House Security Officer	7192-A	0901-0507	Furniture Removalist/Driver
6504-F	1013-1109	Frozen Foods Operator	7192-Z	*	Furniture Removalists nec
5001-A	0803-0101	Fruit (Perennial Horticultural Crop) Grower	6613-A	0715-2101	Furrier, General
6541-A	1013-0703	Fruit Conserve Cook (a)	6341-D	1005-1307	Fuse Maker
6504-A	1013-1199	Fruit Dehydrator (sp)			

## G

6103-A	0703-0901	Gaffer (Film Production) (sp)	6803-B	0105-1799	Ganger, Railway/Tramway (sp)
6082-C	1003-1105	Galvaniser, Continuous Plant (sp)	7101-C	0907-0105	Gantry Crane Driver (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
6892-C	1101-1107	Garage Door Installer (sp)	2001-A	0201-0301	Geomorphologist (sp)
8090-B	1101-0101	Garbage Collector	2001-B	0201-0303	Geophysicist
5021-E	0713-3109	Gardener, Landscape	2005-C	0303-0105	Geophysics Technician
5021-D	0713-3107	Gardener, Private Garden	2401-Z	0205-0399	Geriatrician (sp)
5021-B	0713-3103	Gardener, Public Gardens	*	0601-0999	Geriatrics Officer, Nursing
5001-B	0803-0103	Garlic Grower (sp)	6604-E	1011-0105	Gill Box Operator (sp)
6606-A	1011-0515	Garment Dyer (sp)	5000-Z	0801-0199	Ginger Grower (sp)
4222-A	0601-0903	Gas Examiner (sp)	6604-C	1011-0107	Ginner (a)
6001-Z	0909-0399	Gas Furnace Operator (sp)	4001-A	0401-0101	Girl/Man Friday (a)
6001-Z	0909-0399	Gas Furnaceman (sp)	6504-A	1013-1199	Glace Dehydrator (sp)
9006-B	0705-0903	Gas Leakage Attendant	7123-A	1101-0703	Glace Fruit Packer (sp)
9006-B	0705-0903	Gas Leakage Inspector (a)	6417-B	1009-0101	Glass Batcher (a)
2046-D	0301-0507	Gas Leakage Survey Technical Officer (sp)	6417-B	1009-0101	Glass Batchman/woman (a)
7110-D	0105-1309	Gas Pipeline Area Supervisor (a)	6413-D	0713-0307	Glass Bender
9006-A	*	Gas Termination Attendant (a)	6411-A	0715-1501	Glass Blower (a)
5332-J	0909-0105	Gas Tester	6411-A	0715-1501	Glass Blower, Molten Tank
6036-B	1003-0905	Gas Welder/Cutter	6411-C	0715-1505	Glass Blowing Lathe Operator
4099-E	0499-9903	Gas-Meter Reader (sp)	3003-Z	0715-1599	Glass Craftworker (sp)
6035-A	1003-0901	Gas-Shielded-Arc Welding Machine Operator	6413-C	0713-0305	Glass Cutter, Skilled
6816-B	0705-0903	Gas-main and Line Fitter (a)	3001-C	0713-0399	Glass Designer
6816-B	0705-0903	Gasfitter	6413-Z	0713-0399	Glass Embosser (sp)
6816-B	0705-0903	Gasfitter, Commercial (sp)	6302-D	1005-2115	Glass Enamel Mixer (sp)
6816-B	0705-0903	Gasfitter, Industrial (sp)	6417-B	1009-0101	Glass Furnace Controlman/woman (a)
2401-Z	0205-0321	Gastroentologist	6417-B	1009-0101	Glass Furnace Operator (a)
4293-D	0611-0507	Gate Attendant (Entertainment) (a)	6417-B	1009-0101	Glass Furnaceman/woman (a)
4217-D	0601-1105	Gate Attendant (sp)	6413-A	0713-0301	Glass Installer (sp)
4217-D	0601-1105	Gate Keeper (sp)	6417-B	1009-0101	Glass Maker (a)
6022-A	0701-0701	Gear Cutter (sp)	6417-B	1009-0101	Glass Melt Operator
6063-B	0713-1301	Gem Cutter	6417-D	1009-0107	Glass Mould Cleaner (sp)
6063-A	0713-1303	Gem Mounter (sp)	6413-Z	0713-0399	Glass Silverer (sp)
6063-C	0713-1305	Gem Setter and Engraver	6413-Z	*	Glass Trade Occupations nec
4099-A	0499-9901	General Clerk	6419-Z	*	Glass Working Occupations nec
6504-A	1013-1199	General Food Processing Machine Operator	3001-C	0215-0305	Glassware Designer (sp)
5340-C	0105-1501	General Foreman/woman, Concentrator (sp)	6417-C	1009-0105	Glassware Machine Attendant (a)
6810-A	0105-1103	General Foreman/woman, Construction (a)	6417-A	1009-0103	Glassware Maker
5340-A	0105-1501	General Foreman/woman, Crushing and Screening Occupations (sp)	6417-D	1009-0107	Glassware Process Assistant
1023	0103-0700	General Foreman/woman, Underground Mining (sp)	6417-C	1009-0105	Glassware Process Operator
5201-A	1101-3301	General Forestry Worker	641	1009-0103	Glassware Production Leading Hand
5343-J	1001-0319	General Hand (Alluvial Separation) (a)	6416-A	1015-0125	Glassware Verifier
8020-L	1101-2923	General Hand, Flexographic Printing (sp)	6406-C	1009-0321	Glaze Mixer (sp)
8020-M	1101-2921	General Hand, Hide and Skin Processing (a)	6413-A	0713-0301	Glazier
8020-K	1101-2703	General Hand, Laundry (a)	6413-A	0713-0301	Glazier, Structural Glass (sp)
8020-L	1101-2923	General Hand, Letterpress Printing (sp)	7001-D	0209-0713	Gliding Instructor/Instructress (sp)
8020-L	1101-2923	General Hand, Newspaper Press (sp)	6619-B	1011-0701	Glove Sewer (sp)
8020-L	1101-2923	General Hand, Printing	6209-E	1007-0313	Glue Mixer
1020-C	0103-0105	General Manager (Lower Level)	6205-B	1007-0503	Glue Room Operator, Particleboard Manufacture (a)
1020-B	0103-0103	General Manager (Middle Level)	6209-J	1007-0317	Glue Spreader Operator (a)
1020-A	0103-0101	General Manager (Upper Level)	3031-B	1205-0303	Goal Referee/Umpire (sp)
1024	0103-0900	General Manager, Operations (sp)	5000-I	0801-0307	Goat Breeder (sp)
1023	0103-0700	General Manufacturing Manager (sp)	5000-E	0801-0307	Goat Farmer
2411-A	0309-0101	General Registered Nurse	6514-A	1013-1301	Goat Sticker (sp)
1022	0103-0500	General Sales Manager (sp)	6721-A	0707-1101	Gold Blocker (sp)
8010-B	1101-2303	General Underground Mine Labourer (a)	6063-D	0713-1307	Goldbeater (sp)
6392-A	0905-0701	Generator Man/Woman (a)	6063-D	0713-1307	Goldsmith (sp)
2012-H	0201-1115	Geneticist	3030-A	1205-0101	Golf Professional (Coach) (sp)
2005-B	0303-0103	Geochemical Technician (sp)	5001-A	0803-0101	Gooseberry Grower (sp)
2001-A	0201-0301	Geochemist (sp)	5001-B	0803-0103	Gourd Grower (sp)
2001-A	0201-0301	Geochronologist (sp)	4291-Z	0609-0199	Governess (Child Care) (sp)
2052-B	0203-0503	Geodetic Surveyor (sp)	1030-A	0213-0101	Government Accountant (sp)
2109-B	0217-0505	Geographer	1010-C	0103-1905	Government Policy Adviser (Lower Level)
2302-A	0207-0513	Geography Master/Mistress (sp)	1010-B	0103-1903	Government Policy Adviser (Middle Level)
2001-A	0201-0301	Geologist	1010-A	0103-1901	Government Policy Adviser (Senior Level)
2004-Z	0301-0103	Geology Technical Officer (sp)	1009-Z	0101-0301	Governor or Governor-General
2005-B	0303-0103	Geology Technician	1009-Z	0101-0301	Governor-General (sp)
			5320-A	0105-1501	Grade Control Co-ordinator (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
5320-A	0105-1501	Grade Control Foreman/woman (a)	6406-C	1009-0321	Grinding Pan Tender, Clay Processing (sp)
6801-B	0903-0103	Grader Driver (a)	5340-B	0105-1501	Grinding Supervisor (a)
6801-B	0903-0103	Grader Operator	3028-Z	0715-3799	Grip (sp)
1034-G	0501-9903	Grain Broker (sp)	5309-E	0907-0705	Grizzlyman/woman
7111-F	0907-0511	Grain Handler (sp)	4100-D	0105-0509	Grocery Department Supervisor (sp)
4122-D	0503-0707	Grain Merchant (sp)	5012-B	0899-0903	Groom (Horse)
6521-C	0711-0505	Grain Miller	4294-C	0611-0705	Ground Agent
6524-A	1013-0901	Grain Shooter (sp)	4294-C	0611-0705	Ground Host/Hostess (a)
5000-J	0801-0101	Grain Sorghum Grower (sp)	7001-F	0209-0713	Ground School Instructor/Instructress
5001-B	0803-0103	Gamma Grower (sp)	7001-F	0209-0713	Ground Trainer, Flight Instruction (a)
6815-A	0705-0701	Granolithic Worker (sp)	5021-C	0713-3105	Groundsman/woman
6331-E	1005-0909	Granulator Machine Operator	4241-B	1101-9907	Groundsman/woman, Lodging and Accommodation
5001-A	0803-0101	Grape Grower (sp)	2005-D	0303-0107	Groundwater Hydrological Technician (sp)
8030-B	1101-3103	Grape Picker (sp)	1020	0103-0100	Group General Manager (sp)
5001-A	0803-0101	Grapefruit Grower (sp)	4291-E	0609-0107	Group Home Parent (sp)
3001-B	0215-0303	Graphic Designer	1025	0103-1100	Group Industrial Relations Manager (sp)
6700-B	0105-1109	Graphic Reproduction Department Supervisor	1022	0103-0500	Group Product Manager (sp)
5343-I	1001-0317	Gravity Separator (sp)	7029-A	0601-1111	Guard, Freight Train (sp)
5343-H	1001-0315	Gravity Separator Attendant	7029-A	0601-1111	Guard, Passenger Train (sp)
6702-A	0707-0301	Gravure Camera Operator (sp)	7029-A	0601-1111	Guard, Railway
6016-C	0715-0101	Grease Mopper (sp)	7029-A	0601-1111	Guard, Suburban Train (sp)
7014-C	0905-1311	Greaser, Ship (a)	4217-Z	*	Guards and Related Security Occupations nec
5001-B	0803-0103	Green Bean Grower (sp)	2101-C	0217-0305	Guidance Officer (a)
4130-C	0505-0105	Green Grocer (sp)	4292-C	0611-0305	Guide, Establishment
6203-G	1015-0117	Green Mill Timber Grader (sp)	6033-A	1003-0705	Guillotine Operator (Metal) (sp)
5001-B	0803-0103	Green Pea Grower (sp)	6721-B	0707-1103	Guillotine Operator, Bookbinding
5021-C	0713-3105	Greenkeeper (sp)	4297-B	0713-2903	Guitar Maker/Repairer (sp)
6404-C	1009-0325	Greenware Turner (a)	3023-C	1203-0505	Guitarist (sp)
6221-A	0905-1119	Grinder Operator (Paper Pulp Preparation)	6313-D	1005-0307	Gun Hand (Plastics)
6513-A	1013-0501	Grinder Operator, Food Processing (sp)	6062-C	0715-0501	Gunsmith
6803-B	1101-1701	Grinder, Railway (sp)	6514-A	1013-1301	Gut Sorter (sp)
5342-C	1001-0105	Grinding Mill Attendant (a)	6514-A	1013-1301	Gutter, Animal (a)
5342-C	1001-0105	Grinding Mill Operator	6815-B	0705-0703	Gypsum Plasterboard Fixer (a)
5340-B	0105-1501	Grinding Mill Supervisor/Foreman/woman (a)	7001-E	0209-0713	Gyroplane Instructor/Instructress (sp)

## H

2420-C	0201-1305	Haematologist (sp)	7019-Z	0103-9900	Harbour Master (sp)
2420-B	0201-1303	Haematology Medical Laboratory Scientist (sp)	6014-C	1003-0505	Hardener
2423-A	0303-0311	Haematology Technician (sp)	5211-A	1101-3305	Hardwood Faller
4261-B	0713-2503	Hair Stylist, Gentlemen's (a)	5211-A	1101-3305	Hardwood Feller (a)
4261-A	0713-2501	Hair Stylist, Ladies' (a)	6615-A	0713-2101	Harness Maker (sp)
4261-B	0713-2503	Hairdresser, Combined (Gentlemen's) (sp)	3023-C	1203-0505	Harpist (sp)
4261-A	0713-2501	Hairdresser, Combined (Ladies) (sp)	2013-A	0201-0901	Harvesting Manager (sp)
4261-B	0713-2503	Hairdresser, Gentlemen's	5014-E	1101-3109	Hatchery Assistant
4261-A	0713-2501	Hairdresser, Ladies'	5000-Z	0801-0311	Hatchery Farmer, Poultry (sp)
4261-C	0713-2505	Hairdresser, Unisex	5000-Z	0801-0311	Hatchery Manager, Poultry (sp)
4269-Z	*	Hairdressers, Beauticians and Related Occupations nec	5102-B	1101-3503	Haul Seine Fisherman/woman (sp)
6702-A	0707-0301	Half-Tone Etcher (sp)	5323-D	0901-0509	Haul Truck Operator
6302-A	1005-2107	Halogenation Operator (sp)	5323-D	0901-0509	Haulpak Driver (sp)
6511-C	0711-0305	Ham and Bacon Smallgoods Maker (sp)	5001-A	0803-0101	Hazelnut Grower (sp)
6406-C	1009-0321	Hammermill Operator (sp)	4231-A	0711-0901	Head Chef (a)
6031-C	0701-1305	Hammersmith (a)	5020-B	0105-1113	Head Gardener (a)
6701-A	0707-0101	Hand Compositor (sp)	5020-C	0105-1113	Head Greenkeeper (sp)
6313-E	1005-0309	Hand Laminator	5020-C	0105-1113	Head Groundsman/woman
7123-A	1101-0799	Hand Packer (Food Products) (sp)	6520-B	0105-1107	Head Maltster (sp)
7123-A	*	Hand Packer, General	6520-B	0105-1107	Head Miller (a)
6059-Z	0715-0599	Hand Tool Repairer (sp)	4240-D	0105-0917	Head Porter (a)
3031-A	1205-0301	Handicapper, Harness/Horse Racing (sp)	6203-D	0713-3701	Head Sawyer
4219-Z	0601-0999	Handwriting Expert (sp)	6203-A	0905-1109	Head Sawyer, Band-Saw (Remote Control) (sp)
4241-A	1101-9909	Handyman/woman	6203-D	0713-3701	Head Sawyer, Band-Saw (sp)
4001-B	0401-0103	Hansard Reporter (sp)	6203-A	0905-1109	Head Sawyer, Circular Saw (Remote Control) (sp)
5333-C	0715-3903	Harbour Diver	6203-A	0905-1109	Head Sawyer, Gang Saw (Remote Control) (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
6203-D	0713-3701	Head Sawyer, Gang Saw (sp)	6001-B	0909-0309	Helper (Blast Furnace) (sp)
6203-A	0905-1109	Head Sawyer, Sawmill (Remote Control)	7121-B	1101-0509	Helper (Stores) (sp)
3028-Z	0715-3799	Head Stagehand (sp)	6619-B	1011-0701	Hemstitching Machine Operator (sp)
6514-B	1013-1303	Head Trimmer (sp)	2409-B	0205-9999	Herbalist (sp)
4230-H	0105-1107	Head Waiter/Waitress	5001-A	0803-0101	Herbs Grower (sp)
2310-I	0209-0517	Head of Department, Audiometry (TAFE) (sp)	2012-M	0201-1125	Herpetologist (sp)
2311-B	0209-0303	Head of Department, Automotive Electrics (TAFE) (sp)	6603-B	0715-2505	Hide and Skin Classifier
2310-C	0209-0505	Head of Department, Building Foremanship/womanship (TAFE) (sp)	1034-G	0505-9999	Hide and Skin Merchant (sp)
2310-J	0209-0311	Head of Department, Catering (TAFE) (sp)	1009-Z	0101-0305	High Commissioner
2310-E	0209-0509	Head of Department, Civil Engineering (TAFE) (sp)	2120-B	0211-0503	High Court Judge (sp)
2311-D	0209-0307	Head of Department, Composition (TAFE) (sp)	7193-Z	0903-0399	High Density Order Picker Operator (sp)
2310-B	0209-0503	Head of Department, Fashion Design (TAFE) (sp)	7193-Z	0903-0399	High Density Rack/Aisle Stacker Operator (sp)
2310-G	0209-0513	Head of Department, Maritime Studies (TAFE) (sp)	5219-Z	1101-3399	High Lead System Operator (sp)
2310-A	0209-0501	Head of Department, Medical Laboratory Studies (TAFE) (sp)	2302-A	0207-0513	High School Teacher (a)
2311-A	0209-0301	Head of Department, Motor Mechanics (TAFE) (sp)	2302-B	0207-0501	High School Teacher, Arts and Crafts (a)
2311-E	0209-0309	Head of Department, Panel Beating (TAFE) (sp)	2302-C	0207-0503	High School Teacher, Home Economics (a)
2311-F	0209-0311	Head of Department, Pastrycooking (TAFE) (sp)	2302-D	0207-0507	High School Teacher, Manual/Industrial Arts (a)
2310-H	0209-0515	Head of Department, Piano Studies (TAFE) (sp)	2302-E	0207-0515	High School Teacher, Music (a)
2311-C	0209-0305	Head of Department, Plumbing (TAFE) (sp)	2302-F	0207-0505	High School Teacher, Physical Education (a)
2310-K	*	Head of Department, Police Studies (TAFE) (sp)	4251-B	1101-2503	High Speed Polisher Operator (sp)
2310-D	0209-0507	Head of Department, Real Estate Management (TAFE) (sp)	4022-B	0405-0303	High-Speed Printer Operator (sp)
2310-F	0209-0511	Head of Department, Veterinary Nursing (TAFE) (sp)	2339-Z	*	Higher Education Teaching and Related Occupations nec
1020	0103-0100	Head of School (Educational Institution) (sp)	7031-B	0901-0303	Hire Car Driver
2302-B	0207-0501	Head, Art Department (sp)	7031-B	0901-0303	Hire Car Operator (a)
2302-A	0207-0513	Head, Department of Business Education (sp)	2012-A	0201-1101	Histologist (sp)
2302-A	0207-0513	Head, English Department (sp)	2420-B	0201-1303	Histology Technologist (sp)
2302-A	0207-0513	Head, Geography Department (sp)	2420-C	0201-1305	Histopathologist (sp)
2302-C	0207-0503	Head, Home Economics Department (sp)	2423-A	0303-0311	Histopathology Technician (sp)
2302-D	0207-0507	Head, Manual/Industrial Arts Department (sp)	2109-C	0217-0507	Historian
2302-A	0207-0513	Head, Mathematics Department (sp)	2109-B	0217-0505	Historical Geographer (sp)
2302-A	0207-0513	Head, Modern Languages Department (sp)	6209-I	1007-0111	Hogger Operator (sp)
2302-E	0207-0515	Head, Music Department (sp)	7102-B	0907-0303	Hoist Operator (Materials Only) (sp)
2302-A	0207-0513	Head, Science Department (sp)	7102-A	0907-0301	Hoist Operator, Materials and Workers
2301-B	0207-0303	Headmaster/mistress, Primary School (sp)	7102-Z	*	Hoist and Winch Operators nec
2302-A	0207-0513	Headmaster/mistress, Secondary School (sp)	6063-D	0713-1307	Hollow-ware Assembler (sp)
1039-G	0213-9905	Health Data Administrator (sp)	6063-E	0713-1309	Hollow-ware Polisher (sp)
2409-Z	*	Health Diagnosing and/or Treating Occupations nec	2109-D	0217-0509	Home Economics Community Adviser (sp)
4222-B	0601-0911	Health Inspector	2109-D	0217-0509	Home Economics Food Consultant (sp)
2002-D	0201-0507	Health Physicist (sp)	2302-C	0207-0503	Home Economics Master/Mistress (sp)
7031-A	0901-0301	Hearse Driver (sp)	2109-D	0217-0509	Home Economist
6301-A	0303-0113	Heat Metal Technician (sp)	4299-Z	0611-9999	Home Helper/Companion (sp)
6014-A	1003-0501	Heat Treater (a)	2330-Z	0217-0999	Home-School Liaison Officer (sp)
6014-C	1003-0505	Heat Treater, Tool Furnace (a)	2119-D	0311-0107	Homemaking Adviser (sp)
6014-A	1003-0501	Heat Treatment Operator, General	2409-B	0205-9999	Homeopath (sp)
6209-D	0909-0509	Heat Treatment/Humidifier Operator (a)	5001-A	0803-0101	Hop Farmer (sp)
6014-B	1003-0503	Heater (Annealing) (a)	3023-C	1203-0505	Horn Player (sp)
6014-C	1003-0503	Heater (Hardening) (a)	5012-C	0899-0905	Horse Breaker
2046-J	0301-0507	Heating and Ventilating Draftsman/woman (sp)	5012-C	0899-0905	Horse Breaker, Harness-Racing (sp)
2046-D	0301-0507	Heating and Ventilating Technical Officer (sp)	5012-C	0899-0905	Horse Breaker, Saddle-Racing (sp)
5343-H	1001-0315	Heavy Media Plant Operator (a)	5000-I	0801-0315	Horse Breeder (sp)
5343-H	1001-0315	Heavy Medium Separation Operator (a)	5000-I	0801-0315	Horse Farmer (sp)
7039-A	0209-0711	Heavy Vehicle Driving Instructor/Instructress (sp)	5219-Z	1101-3399	Horse Snigger (sp)
6801-A	*	Heavy-Duty Equipment Operator (a)	5012-A	0899-0901	Horse Trainer
6051-A	0701-2101	Helicopter Mechanic (sp)	5012-A	0899-0901	Horse Trainer, Standardbred (sp)
7001-C	0307-0105	Helicopter Pilot	5012-A	0899-0901	Horse Trainer, Thoroughbred (sp)
2012-J	0201-1119	Helminthologist (sp)	5001-B	0803-0103	Horseradish Grower (sp)
			4221-B	0601-0909	Horticultural Inspector (sp)
			2010-E	0201-0709	Horticultural Scientist (Fruits, Flowers and Vegetables) (sp)
			2014-A	0301-0301	Horticultural Technical Officer (sp)
			2015-C	0303-0305	Horticultural Technician (sp)
			4051-C	0411-0105	Hospital Admitting Clerk
			4251-C	1101-2505	Hospital Cleaner
			2419-E	0609-0507	Hospital Orderly (a)
			2421-A	0205-0701	Hospital Pharmacist

Code A	Code B	TITLE	Code A	Code B	TITLE
4235-C	0603-0307	Host/Hostess	5109-D	1101-3707	Hunter (a)
4291-E	0609-0107	Hostel Parent	2047-D	0305-0701	Hydraulic Controls Technician (sp)
7101-C	0907-0105	Hot Metal Crane Driver (sp)	2041-B	0203-0903	Hydraulic Design Engineer (sp)
6209-A	1007-0315	Hot Press Operator (Wood Processing) (sp)	5309-B	0909-0115	Hydraulic Fill Operator
6404-G	1009-0301	Hot Press Operator (Clay Products) (sp)	7101-A	0907-0101	Hydraulic-Boom Crane Driver (sp)
6082-C	1003-1105	Hot-Dip Galvaniser (sp)	9000-B	0105-1305	Hydro-Electric Power Station Shift Supervisor (sp)
4240-D	0105-0917	Hotel Concierge	9001-C	0905-0305	Hydro-Electric Station Operator
4295-D	1101-0307	Hotel Page (a)	7011-Z	0307-0709	Hydrofoil Operator (sp)
4295-D	1101-0307	Hotel Porter	6302-H	1005-2101	Hydrogen Fluoride Still Operator (sp)
4217-E	0601-1107	Hotel Security Officer (a)	6504-G	1013-1101	Hydrogenation Operator (sp)
4240-B	0105-0913	Hotel/Motel Manager (a)	2001-A	0201-0301	Hydrogeologist (sp)
6814-A	0705-0501	House Decorator (a)	2005-D	0303-0107	Hydrographer (sp)
6814-A	0705-0501	House Painter (a)	2052-B	0203-0503	Hydrographic Surveyor (sp)
6814-A	0705-0501	House Painting and Decorating Contractor (sp)	2005-D	0303-0107	Hydrological Technician
4251-H	1101-2599	Household Cleaner (a)	2001-B	0201-0303	Hydrologist (sp)
6301-B	0303-0113	Household Products Technician (sp)	6302-A	1005-2107	Hydrolysis and Hydration Operator (sp)
4299-H	0605-0109	Housekeeper	2044-B	0203-1701	Hydrometallurgical Engineer (sp)
4241-C	0605-0109	Housekeeper, Lodging and Accommodation (a)	2001-C	0201-0305	Hydrometeorologist (sp)
4241-C	0605-0109	Houseman/maid	6221-H	*	Hydropulper Operator (Papermaking)
4291-E	0609-0107	Housemother/father (sp)	3022-B	1203-0303	Hypnotist (sp)
7011-Z	0307-0709	Hovercraft Operator (sp)			

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6533-C	1013-0305	Ice Confection Maker (a)	4051-B	0411-0103	Information Clerk, Department Store (sp)
6533-C	1013-0305	Ice Cream Maker	4051-B	0411-0103	Information Clerk, Transport (sp)
4131-F	0505-0311	Ice Cream Vendor (sp)	2132-A	0217-1101	Information Officer (Library) (sp)
2012-M	0201-1125	Ichthyologist (sp)	1039-A	0213-9903	Information Officer (a)
3001-E	0215-0309	Illustrator	1031-C	0213-0305	Information Services Manager (a)
6702-A	0707-0301	Image Preparer	2030-A	0213-0701	Information System Programmer (sp)
2420-B	0201-1303	Immunology Medical Laboratory Scientist (sp)	6312-C	1005-0105	Injection/Compression/Transfer Moulding Machine Operator
3022-B	1203-0303	Impersonator (sp)	6311-B	0701-0903	Injection/Compression/Transfer Moulding Machine Setter
4032-A	0407-0301	Import Freight Clerk	6302-D	1005-2115	Ink Maker (sp)
4100-E	0105-0511	Importer-Exporter (sp)	3000-A	0215-0101	Ink Sketcher (sp)
6209-J	1007-0317	In-feed Operator	6623-Z	1011-0999	Inker Machine Operator (sp)
9004-A	0909-0315	Incinerator Plant Attendant	5102-Z	*	Inland Waters and Estuary Fishing Occupations nec
6001-Z	0909-0399	Induction Furnace Operator (sp)	4216-B	0601-0703	Inquiry Agent
2000-Z	0201-0101	Industrial Chemist (sp)	4212-B	0105-0719	Inquiry Agent, Manager/Supervisor (a)
4251-A	1101-2501	Industrial Cleaner	4051-B	0411-0103	Inquiry Officer (a)
3001-C	0215-0305	Industrial Designer	2012-G	0201-1113	Insect Ecologist (sp)
6063-C	0713-1305	Industrial Diamond Setter (sp)	2012-G	0201-1113	Insect Pathologist (sp)
2100-F	0217-0111	Industrial Economist	4222-A	0601-0903	Inspector of Works (sp)
2043-E	0203-1309	Industrial Engineer (a)	4222-A	0601-0903	Inspector, Boilers and Pressure Vessels (sp)
1023	0103-0700	Industrial Engineering Manager (Manufacturing) (sp)	7039-C	0407-0321	Inspector, Bus/Tram
1027	0103-1500	Industrial Engineering Manager (sp)	6070-B	0701-2503	Inspector, Electroplating (sp)
4211-D	0105-0715	Industrial Fire Safety Officer (a)	4222-Z	0601-0999	Inspector, Explosives Transport (sp)
4222-B	0601-0911	Industrial Hygiene Inspector (sp)	4222-A	0601-0903	Inspector, Explosives and Inflammable Liquids (sp)
3001-E	0215-0309	Industrial Illustrator (sp)	4222-A	0601-0903	Inspector, Factories and Shops (sp)
4222-C	0601-0917	Industrial Inspector (a)	6070-B	0701-2503	Inspector, Heat Treating (sp)
6061-A	0701-2301	Industrial Instrument Mechanic (a)	4221-G	0601-0935	Inspector, Humane Society
2401-C	0205-0399	Industrial Medicine Specialist	6070-B	0701-2503	Inspector, Machine Shop (sp)
2412-Z	0309-0301	Industrial Nurse (sp)	4223z	*	Inspector, Parking (sp)
2421-B	0205-0703	Industrial Pharmacist	6301-C	1015-0143	Inspector, Pharmaceuticals and Toiletries
3000-B	0215-0103	Industrial Photographer (sp)	4221-Z	0601-0999	Inspector, Vermin and Noxious Weeds
2101-D	0217-0307	Industrial Psychologist (a)	4222-B	0601-0911	Inspector, Water Pollution (sp)
1032-D	0213-0507	Industrial Relations Officer	4223-Z	0601-0999	Inspector, Weights and Measures (sp)
1025	0103-1100	Industrial Relations Superintendent (sp)	4222-Z	*	Inspectors and Regulating Officers, Health, Safety and Working Conditions nec
1022	0103-0500	Industrial Sales Manager (sp)	4223-Z	*	Inspectors and Regulating Officers nec
3001-D	0215-0307	Industrial and Commercial Interior Designer (sp)	4221-Z	*	Inspectors and Regulating Officers, Primary Industry and Conservation nec
2301-A	0207-0301	Infant School Teacher			
2412-A	0309-0301	Infant Welfare Nurse (sp)			
2401-Z	0205-0399	Infectious Diseases Specialist (sp)			
4051-B	0411-0103	Information Clerk			

Code A	Code B	TITLE	Code A	Code B	TITLE
6892-C	1101-1107	Installer, Home Improvements	6814-A	0705-0501	Interior Decorator (sp)
3030-A	1205-0101	Instructor, Skiing (sp)	3001-D	0215-0307	Interior Designer
3030-A	1205-0101	Instructor, Sport (a)	2400-Z	*	Intern (sp)
3026-A	*	Instructor/Instructress, Charm Course (sp)	1030-D	0213-0107	Internal Auditor (sp)
6102-A	0703-0301	Instrument Fitter, Electrical (sp)	9005-A	0905-0501	Internal Combustion Engine Driver (a)
6061-A	0701-2301	Instrument Maker/Fitter/Repairer/Mechanic (a)	6890-E	0715-1109	Internal Lagger (a)
3023-C	1203-0505	Instrumental Musician	1035-Z	0213-9999	International Banking Officer (sp)
3023-C	1203-0505	Instrumentalist (a)	4299-A	0611-9909	Interpreter
6406-B	1009-0319	Insulation Cupola Operator/Spinner (sp)	4299-B	0611-9901	Introductory Consultant
6406-B	1009-0319	Insulation Furnace Operator (sp)	4033-Z	*	Inventory Clerk (sp)
6892-B	1101-1105	Insulation Installer	6222-B	1007-0907	Inverform Machine Operator (sp)
6406-B	1009-0319	Insulation Maker	4216-Z	*	Investigatory Occupations nec
6890-E	0715-1109	Insulation Pipe Coverer (Lagging) (a)	1034-B	0501-0103	Investment Adviser/Dealer
4110-B	0501-0303	Insurance Agent (a)	2100-G	0217-0113	Investment Analyst
4110-A	0501-0301	Insurance Broker	4019-B	0403-9903	Invoice Clerk
4110-Z	*	Insurance Brokers and Agents nec	4032-D	0407-0307	Invoice-Control Clerk (sp)
4013-Z	*	Insurance Clerks nec	4032-Z	0407-0315	Inward Freight Clerk
4110-B	0501-0303	Insurance Inspector (Fire and General Insurance)	6302-A	1005-2107	Ion Exchange Operator (sp)
4110-B	0501-0303	Insurance Inspector, Industrial Property (sp)	5345-A	1001-0709	Iron Pellet Tester
4216-B	0601-0703	Insurance Investigator (sp)	2005-B	0303-0103	Isotope Technician (sp)
2412-Z	0309-0399	Intensive Care Nurse (sp)	2301-B	0207-0303	Itinerant Teacher, Primary (sp)
1034-C	0501-0105	Inter-Company Money Market Dealer (sp)	2302-A	0207-0513	Itinerant Teacher, Secondary (sp)

## J

6891-A	1101-1101	Jack Hammer Operator (sp)	6213-A	1007-0701	Joiner Assembler, A Grade
5014-A	0899-0303	Jackaroo/Jillaroo (Farm Hand) (sp)	6213-B	1007-0703	Joiner Assembler, B Grade
5009-A	0899-0303	Jackaroo/Jillaroo (Trainee Manager) (a)	6211-A	0705-0107	Joiner, Architectural (a)
6541-A	1013-0703	Jam and Sauce Cook	6211-A	0705-0107	Joiner, Detailed
3023-E	1203-0509	Jazz Singer (sp)	6211-B	0705-0109	Joiner, Standard
6063-A	0713-1303	Jeweller (a)	6812-A	0705-0101	Jointer (a)
6082-D	1003-1113	Jewellery Assembler (a)	5001-A	0803-0101	Jojoba Grower (sp)
6082-D	1003-1113	Jewellery Benchworker (a)	3010-Z	*	Journalists nec
3001-C	0215-0305	Jewellery Designer (sp)	2120-B	0211-0503	Judge
6063-E	0713-1309	Jewellery Electroplater (sp)	2129-G	0499-0905	Judge's Associate
6082-D	1003-1113	Jewellery Machine Operator (a)	3031-A	*	Judge, Harness/Horse Racing (sp)
6063-A	0713-1303	Jewellery Maker and Repairer	2120-Z	*	Judges, Magistrates and Related Occupations nec
6063-A	0713-1303	Jewellery Model Maker (sp)	3022-B	1203-0303	Juggler (sp)
6063-E	0713-1309	Jewellery Polisher (sp)	6503-F	1013-0111	Juice Blender (sp)
6082-D	1003-1113	Jewellery Process Worker (a)	6503-F	1013-0111	Juice Evaporator (sp)
6063-E	*	Jewellery and Precious Metalware Finisher	6503-F	1013-0111	Juice Extractor Operator (sp)
6201-A	0713-0701	Jig Maker (Wood) (sp)	5302-A	0909-0707	Jumbo Drill Operator
2046-J	*	Jig and Tool Design Draftsman/woman (sp)	5309-F	0909-1303	Jumbo Operator's Assistant
5343-J	1001-0319	Jiggerman/woman (Mineral Ore Treating) (sp)	7019-A	0307-9907	Junior Engineer, Marine (sp)
6406-C	1009-0321	Jiggerman/woman, Clay Processing (sp)	2301-A	0207-0301	Junior Primary Teacher (a)
6021-B	0701-0503	Jigmaker (Metal) (sp)	2030-E	0213-0799	Junior Programmer (a)
6003-A	0701-0103	Jobbing Moulder-Coremaker	1009-Z	0101-0303	Justice of the High Court (sp)
3032-A	1205-0501	Jockey	1009-Z	0101-0303	Justice of the High Court or State Supreme Court
6619-B	1011-0701	Joiner (Sewing Machine) (a)	1009-Z	0101-0303	Justice of the Supreme Court (sp)

## K

5109-D	1101-3707	Kangaroo Shooter (sp)	6514-A	1013-1301	Kidney Remover (sp)
5109-Z	1101-3799	Kelp/Seagrass Gatherer (sp)	8020-G	1101-2913	Kiln Door Builder (sp)
5019-E	1101-9903	Kennelman/maid (sp)	6209-B	0909-0505	Kiln Dryer Operator (Wood Processing)
6302-O	1005-2113	Kettle Operator (Chemicals)	8020-G	1101-2913	Kiln Labourer (sp)
6001-Z	0909-0399	Kettleman (Lead) (sp)	6209-C	0909-0507	Kiln Operator (Wood Processing)
6001-Z	0909-0399	Kettleman (a)	6403-A	0909-0501	Kiln Operator, Cement/Lime and Clay Products
1022	0103-0500	Key Account Manager (sp)	2300-A	0207-0101	Kindergarten Teacher (a)
3028-Z	0715-3799	Key Grip (sp)	4239-A	1101-2925	Kitchenhand
4022-D	0405-0307	Key Punch Operator	5001-A	0803-0101	Kiwi Fruit Grower (sp)
6703-A	0405-0311	Keyboard Operator/Assembler	6510-A	0105-1107	Knackery Supervisor (a)
			6059-Z	0715-0599	Knife Sharpener (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
6514-A	1013-1301	Knifehand (a)	6322-A	1005-0701	Knitting Machine Operator, Rubber Products
6605-G	1011-0513	Knitter (Machine) (a)	6600-D	0105-1111	Knitting Room Supervisor (a)
6605-G	1011-0513	Knitting Machine Operator	6514-A	1013-1301	Knockerdown, Abattoir/Knackery (sp)
<b>L</b>					
6729-A	0715-3305	Label Printer (sp)	6505-A	1015-0131	Lamb Grader (sp)
2004-A	0301-0101	Laboratory Analyst (Chemistry) (sp)	6514-D	1013-1303	Lamb Slicer (sp)
2015-B	0303-0303	Laboratory Animal Technician (sp)	6205-Z	1007-0599	Laminator Operator, Particleboard Manufacture (sp)
6419-Z	1009-0199	Laboratory Assistant, Optical Lens (sp)	5399-A	0611-9917	Lamp and Bathroom Attendant (sp)
2019-C	1005-1905	Laboratory Assistant	5399-A	0611-9917	Lamp and Washroom Attendant (sp)
2019-C	*	Laboratory Attendant (a)	5399-A	0611-9917	Lampman/woman
1028	0103-1700	Laboratory Manager (sp)	5399-A	0611-9917	Lamproom Attendant (a)
1028	0103-1700	Laboratory Superintendent (sp)	5399-A	0611-9917	Lamproom Mechanic (a)
2004-A	0301-0101	Laboratory Supervisor	2052-B	0203-0503	Land Surveyor (Cadastral) (sp)
2100-B	0217-0103	Labour Economist (sp)	2052-B	0203-0503	Land Surveyor (Geodetic) (sp)
8020-I	1101-2917	Labourer, Abattoir (a)	5219-B	1101-3311	Landing Operator (Logging)
8010-A	1101-2301	Labourer, Bauxite Mine (Open Cut) (sp)	2050-B	0203-0103	Landscape Architect
8030-A	1101-3111	Labourer, Beef Cattle Farm (sp)	5021-E	0713-3109	Landscape Gardener
8000-A	1101-1103	Labourer, Building Site	5021-E	0713-3109	Landscape Horticulturist (a)
8000-B	1101-2101	Labourer, Communication/Telecommunication Installation (sp)	3000-A	0215-0101	Landscape Painter (sp)
8030-A	1101-3111	Labourer, Dairy Farm (sp)	2330-A	0217-0903	Languages Advisory Teacher (sp)
8010-A	1101-2301	Labourer, Drilling Rig (sp)	6063-B	0713-1301	Lapidary (a)
8000-C	1101-1301	Labourer, Earthmoving	2005-B	0303-0103	Lapidary Technician (sp)
8000-B	1101-2101	Labourer, Electrical Power Installation (sp)	6621-C	0713-2301	Laster
8000-B	1101-2101	Labourer, Electrical Power and Communications	7014-A	0905-0503	Launch Driver (sp)
8020-M	1101-2921	Labourer, Fellmongery (sp)	7011-E	0307-0709	Launch Master (a)
8031-A	1101-3301	Labourer, Forestry	7013-A	1101-3501	Launch Operator (sp)
8030-B	1101-3103	Labourer, Fruit and Vegetable Growing	7013-A	1101-3501	Launch Worker (sp)
8030-A	1101-3111	Labourer, Goat Farm (sp)	7013-A	1101-3501	Launchman/woman (sp)
8020-M	1101-2921	Labourer, Hide and Skin Processing	4254-A	*	Launderer (sp)
8020-M	1101-2919	Labourer, Hide and Skin Store (sp)	4259-B	1101-2703	Laundromat Attendant (sp)
8010-A	1101-2301	Labourer, Iron Ore Mine (Open Cut) (sp)	4259-B	1101-2703	Laundry Assistant
8020-I	1101-2917	Labourer, Knackery (a)	4131-D	0505-0307	Laundry Driver Salesman/woman (sp)
8020-K	1101-2703	Labourer, Laundry	4259-A	1101-2701	Laundry Machine Attendant
8010-A	1101-2301	Labourer, Limestone Quarry (sp)	4254-A	*	Laundryman/woman (a)
8001-A	1101-3301	Labourer, Logging (sp)	4099-G	0499-0907	Law Clerk
8020-I	1101-2917	Labourer, Meatworks	6052-A	0709-0101	Lawnmower Mechanic (sp)
8010-C	1101-2301	Labourer, Mineral Ore Treating	2121-Z	*	Lawyers nec
8010-C	1101-2301	Labourer, Ore Processing (a)	6211-C	0705-0111	Lay-out Marker (a)
8010-C	1101-2305	Labourer, Ore and Minerals Treating	6313-E	1005-0309	Lay-up Hand (sp)
8020-B	1101-2907	Labourer, Paper/Pulp Products Manufacture	3002-B	0311-0703	Layout Artist
8000-D	1101-1501	Labourer, Paving and Surfacing	5343-D	1001-0307	Leach Plant Operator (a)
8030-A	1101-3111	Labourer, Piggery (sp)	5343-D	1001-0307	Leaching Operator (a)
8030-A	1101-3111	Labourer, Poultry Farm (sp)	6001-Z	0909-0399	Lead Smelter (sp)
8010-A	1101-2301	Labourer, Quarry/Open Cut Mine	2040-B	0203-0703	Lead Smelting Engineer (sp)
8000-E	1101-1701	Labourer, Railway Track	6322-Z	1005-0799	Lead Stripping Machine Operator (Rubber) (sp)
8000-D	1101-1501	Labourer, Road Maintenance (sp)	3010-C	0215-0505	Leader Writer (sp)
8020-C	1101-2903	Labourer, Sawmill	1000-A	*	Leader of the Opposition (sp)
8030-A	1101-3111	Labourer, Sheep Farm (sp)	7110-B	0105-1307	Leading Hand, Bulk Materials Handling Occupations
8030-A	1101-3111	Labourer, Stud Farm (sp)	7110-B	0105-1307	Leading Hand, Dumping and Stockpiling (sp)
8030-A	1101-3111	Labourer, Sugar Cane Farm (sp)	5341-A	0905-1101	Leading Hand, Floating Plant Operator (a)
8020-L	1101-2921	Labourer, Tannery (sp)	5342-A	1001-0101	Leading Hand, Primary Crusher
8020-C	1101-2903	Labourer, Timber Yard (a)	7110-B	0105-1307	Leading Hand, Ship Loading (sp)
8030-A	1101-3111	Labourer, Tobacco Farm (sp)	7110-B	0105-1307	Leading Hand, Site (sp)
8010-B	1101-2303	Labourer, Underground Mine	7110-B	0105-1307	Leading Hand, Unloading (sp)
8030-A	1101-3111	Labourer, Wheat Farm (sp)	6413-Z	0713-0399	Leadlight Glazer (sp)
6623-B	1011-0907	Lacing Machine Operator (sp)	6512-C	0711-1505	Learner Slaughterman/woman (a)
6302-D	1005-2115	Lacquer Blender (sp)	5335-A	1101-2300	Leasehand (a)
4261-A	0713-2501	Ladies Hairdresser	3003-Z	0713-2101	Leather Craftworker (sp)
6006-B	1003-0303	Ladleman/woman (Ferrous; Non-Ferrous Metals)	6604-A	1011-0301	Leather Drying Operator (sp)
6890-E	0715-1109	Lagger	*	1011-0303	Leather Finishing Operator (sp)
6514-C	1013-1305	Lamb Boner (sp)	6603-C	0715-2501	Leather Grader

Code A	Code B	TITLE	Code A	Code B	TITLE
6604-A	1011-0301	Leather Measuring Operator (sp)	2326-Z	0209-0199	Lecturer/Tutor, Dance (Higher Education) (sp)
6604-A	1011-0301	Leather Printing Operator (sp)	2325-Z	0209-0199	Lecturer/Tutor, Dental Therapy (Higher Education) (sp)
6604-A	1011-0301	Leather Splitting Operator (sp)	2325-B	0209-0186	Lecturer/Tutor, Dentistry (Higher Education)
6615-A	0713-2101	Leather Worker	2326-A	0209-0191	Lecturer/Tutor, Design (Higher Education)
6603-Z	*	Leather, Fur and Fibre Classing and Grading Occupations nec	2326-B	0209-0192	Lecturer/Tutor, Dramatic Arts (Higher Education)
2310-A	0209-0501	Lecturer, Applied Science (TAFE) (a)	2324-B	0209-0179	Lecturer/Tutor, Early Childhood Teacher Education (Higher Education)
2310-B	0209-0503	Lecturer, Art and Design (TAFE) (a)	2321-D	0209-0111	Lecturer/Tutor, Earth Sciences (Higher Education)
2310-C	0209-0505	Lecturer, Building (TAFE) (a)	2323-Z	0209-0199	Lecturer/Tutor, Economic History (Higher Education) (sp)
2311-C	0209-0305	Lecturer, Building Trades (TAFE) (a)	2323-B	0209-0149	Lecturer/Tutor, Economics (Higher Education)
2310-D	0209-0507	Lecturer, Business Studies (TAFE) (a)	2324-A	0209-0177	Lecturer/Tutor, Education (Higher Education)
2311-B	0209-0303	Lecturer, Electrical Trades (TAFE) (a)	2322-C	0209-0127	Lecturer/Tutor, Electrical/Electronic Engineering (Higher Education)
2310-E	0209-0509	Lecturer, Engineering (TAFE) (a)	2323-M	0209-0171	Lecturer/Tutor, English (Higher Education)
2311-F	0209-0311	Lecturer, Food Trades (TAFE) (a)	2321-H	0209-0119	Lecturer/Tutor, Environmental Studies (Higher Education)
2310-K	0209-0521	Lecturer, General Studies (TAFE) (a)	2323-Z	0209-0199	Lecturer/Tutor, Ethnic Studies (Higher Education) (sp)
2310-F	0209-0511	Lecturer, Horticultural and Agricultural Studies (TAFE) (a)	2339-Z	0209-0199	Lecturer/Tutor, External Studies (Higher Education) (sp)
2310-G	0209-0513	Lecturer, Industrial Services (TAFE) (a)	2326-C	0209-0193	Lecturer/Tutor, Fine Arts (Higher Education)
2311-A	0209-0301	Lecturer, Metal Trades (TAFE) (a)	2321-E	0209-0113	Lecturer/Tutor, Food Sciences and Technology (Higher Education)
2310-H	0209-0515	Lecturer, Music (TAFE) (a)	2321-Z	0209-0104	Lecturer/Tutor, Forestry (Higher Education) (sp)
2310-I	0209-0517	Lecturer, Paramedical Studies (TAFE) (a)	2323-C	0209-0151	Lecturer/Tutor, Geography (Higher Education)
2310-J	0209-0529	Lecturer, Personal Services (TAFE) (a)	2322-Z	0209-0133	Lecturer/Tutor, Geological Engineering (Higher Education) (sp)
2311-D	0209-0307	Lecturer, Printing Trades (TAFE) (a)	2320-Z	0209-0199	Lecturer/Tutor, Health Administration (Higher Education) (sp)
2311-E	0209-0309	Lecturer, Vehicle Trades (TAFE) (a)	2323-K	0209-0167	Lecturer/Tutor, History (Higher Education)
2323-Z	0209-0199	Lecturer/Tutor, Aboriginal Studies (Higher Education) (sp)	2323-Z	0209-0199	Lecturer/Tutor, History and Philosophy of Science (Higher Education) (sp)
2322-Z	0209-0199	Lecturer/Tutor, Aeronautical Engineering (Higher Education) (sp)	2323-Z	0209-0199	Lecturer/Tutor, Home Economics (Higher Education) (sp)
2322-Z	0209-0199	Lecturer/Tutor, Agricultural Engineering (Higher Education) (sp)	2321-Z	0209-0104	Lecturer/Tutor, Horticulture (Higher Education) (sp)
2321-A	0209-0104	Lecturer/Tutor, Agricultural Sciences (Higher Education)	2323-Z	0209-0199	Lecturer/Tutor, Indian Studies (Higher Education) (sp)
2323-Z	0209-0199	Lecturer/Tutor, American Studies (Higher Education) (sp)	2322-D	0209-0129	Lecturer/Tutor, Industrial and Production Engineering (Higher Education)
2323-A	0209-0147	Lecturer/Tutor, Anthropology (Higher Education)	2323-Z	0209-0199	Lecturer/Tutor, Interpreting and Translating (Higher Education) (sp)
2322-J	0209-0141	Lecturer/Tutor, Architecture (Higher Education)	2323-Z	0209-0199	Lecturer/Tutor, Japanese Studies (Higher Education) (sp)
2323-Z	0209-0199	Lecturer/Tutor, Asian Studies (Higher Education) (sp)	2323-Z	0209-0199	Lecturer/Tutor, Jewish Studies (Higher Education) (sp)
2325-Z	0209-0199	Lecturer/Tutor, Audiology (Higher Education) (sp)	2320-Z	0209-0199	Lecturer/Tutor, Justice Administration (Higher Education) (sp)
2323-Z	0209-0199	Lecturer/Tutor, Australian Studies (Higher Education) (sp)	2323-D	0209-0153	Lecturer/Tutor, Law (Higher Education)
2321-B	0209-0107	Lecturer/Tutor, Biological Sciences (Higher Education)	2323-E	0209-0155	Lecturer/Tutor, Librarianship (Higher Education)
2322-K	0209-0143	Lecturer/Tutor, Building (Higher Education)	2323-Z	0209-0199	Lecturer/Tutor, Linguistics (Higher Education) (sp)
2320-A	0209-0101	Lecturer/Tutor, Business Studies (Higher Education)	2329-Z	0209-0199	Lecturer/Tutor, Maritime Studies (Higher Education) (sp)
2322-A	0209-0123	Lecturer/Tutor, Chemical Engineering (Higher Education)	2322-Z	0209-0199	Lecturer/Tutor, Materials Engineering (Higher Education) (sp)
2321-C	0209-0109	Lecturer/Tutor, Chemistry (Higher Education)	2321-F	0209-0115	Lecturer/Tutor, Materials Science (Higher Education)
2323-Z	0209-0199	Lecturer/Tutor, Chinese Studies (Higher Education) (sp)	2322-H	0209-0137	Lecturer/Tutor, Mathematics (Higher Education)
2325-Z	0209-0199	Lecturer/Tutor, Chiropody/Podiatry (Higher Education) (sp)	2322-E	0209-0131	Lecturer/Tutor, Mechanical Engineering (Higher Education)
2322-B	0209-0125	Lecturer/Tutor, Civil Engineering (Higher Education)	2326-Z	0209-0199	Lecturer/Tutor, Media Studies/Communication (Higher Education) (sp)
2323-L	0209-0169	Lecturer/Tutor, Classical Studies (Higher Education)	2323-Z	0209-0199	Lecturer/Tutor, Mediaeval Studies (Higher Education) (sp)
2322-Z	0209-0127	Lecturer/Tutor, Communications Engineering (Higher Education) (sp)			
2322-G	0209-0135	Lecturer/Tutor, Computer Science/Electronic Data Processing (Higher Education)			
2323-Z	0209-0199	Lecturer/Tutor, Counselling (Higher Education) (sp)			
2339-Z	0209-0199	Lecturer/Tutor, Course Development (Higher Education) (sp)			
2323-Z	0209-0199	Lecturer/Tutor, Criminology (Higher Education) (sp)			

Code A	Code B	TITLE	Code A	Code B	TITLE
2325-Z	0209-0199	Lecturer/Tutor, Medical Nucleography (Higher Education) (sp)	2322-I	0209-0139	Lecturer/Tutor, Statistics (Higher Education)
2325-Z	0209-0199	Lecturer/Tutor, Medical Radiography (Higher Education) (sp)	2329-Z	0209-0199	Lecturer/Tutor, Strategic Studies (Higher Education) (sp)
2320-Z	0209-0199	Lecturer/Tutor, Medical Record Administration (Higher Education) (sp)	2322-L	0209-0145	Lecturer/Tutor, Surveying (Higher Education)
2325-A	0209-0185	Lecturer/Tutor, Medical Sciences (Higher Education)	2324-F	0209-0184	Lecturer/Tutor, Tertiary Teacher Education (Higher Education)
2325-C	0209-0187	Lecturer/Tutor, Medical Technology (Higher Education)	2321-I	0209-0121	Lecturer/Tutor, Veterinary Science (Higher Education)
2325-A	0209-0187	Lecturer/Tutor, Medicine (sp)	2321-Z	0209-0104	Lecturer/Tutor, Viticulture and Winemaking (Higher Education) (sp)
2323-Z	0209-0199	Lecturer/Tutor, Middle Eastern Studies (Higher Education) (sp)	2323-J	0209-0199	Lecturer/Tutor, Urban and Regional Planning (Higher Education)
2322-F	0209-0133	Lecturer/Tutor, Mining Engineering (Higher Education)	4012-B	0403-0303	Ledger Examiner (sp)
2323-Z	0209-0199	Lecturer/Tutor, Modern European Studies (Higher Education) (sp)	5001-B	0803-0103	Leek Grower (sp)
2323-N	0209-0173	Lecturer/Tutor, Modern Languages (Higher Education)	4099-G	0499-0907	Legal Clerk (a)
2323-Z	0209-0199	Lecturer/Tutor, Museum Studies (Higher Education) (sp)	4001-A	0401-0101	Legal Secretary (sp)
2326-D	0209-0105	Lecturer/Tutor, Music (Higher Education)	2129-Z	*	Legal and Related Occupations nec
2325-D	0209-0188	Lecturer/Tutor, Nursing (Higher Education)	6416-A	1015-0125	Lehr Attendant Verifier, Glassware (sp)
2325-E	0209-0189	Lecturer/Tutor, Nutrition and Dietetics (Higher Education)	5001-A	0803-0101	Lemon Grower (sp)
2325-Z	0209-0199	Lecturer/Tutor, Occupational Therapy (Higher Education) (sp)	8030-B	1101-3103	Lemon Picker (sp)
2325-Z	0209-0199	Lecturer/Tutor, Optometry (Higher Education) (sp)	6803-B	1101-1701	Lengthsman/woman, Railway (sp)
2325-Z	0209-0199	Lecturer/Tutor, Orthoptics (Higher Education) (sp)	6419-Z	1009-0199	Lens Blank Marker (sp)
2323-Z	0209-0199	Lecturer/Tutor, Pacific Studies (Higher Education) (sp)	6419-Z	1009-0199	Lens Turning Machine Operator (sp)
2325-F	0209-0190	Lecturer/Tutor, Pharmacy (Higher Education)	6404-H	1009-0313	Letter Cutter, Stone (sp)
2323-O	0209-0175	Lecturer/Tutor, Philosophy (Higher Education)	3002-Z	0311-0799	Lettering Artist (sp)
2321-G	0209-0117	Lecturer/Tutor, Physics (Higher Education)	6711-A	0707-0501	Letterpress Printing Machinist
2325-Z	0209-0199	Lecturer/Tutor, Physiotherapy (Higher Education) (sp)	5001-B	0803-0103	Lettuce Grower (sp)
2323-Z	0209-0199	Lecturer/Tutor, Police Studies (Higher Education) (sp)	8010-B	1101-2303	Level Cleaner, Underground Mine (sp)
2323-F	0209-0157	Lecturer/Tutor, Political Science (Higher Education)	5302-D	0909-0713	Level Miner (sp)
2324-C	0209-0181	Lecturer/Tutor, Primary Teacher Education (Higher Education)	6209-K	1007-0113	Leverman/woman
2326-E	0209-0194	Lecturer/Tutor, Professional Writing and Journalism (Higher Education)	2132-A	0217-1101	Librarian
2325-Z	0209-0199	Lecturer/Tutor, Prosthetics and Orthotics (Higher Education) (sp)	2132-A	0217-1101	Librarian, Children's (sp)
2323-G	0209-0159	Lecturer/Tutor, Psychology (Higher Education)	2132-A	0217-1101	Librarian, Music (sp)
2322-K	0209-0143	Lecturer/Tutor, Quantity Surveying (sp)	2132-A	0217-1101	Librarian, Reference (sp)
2323-Z	0209-0199	Lecturer/Tutor, Recreation Studies (Higher Education) (sp)	2132-A	0217-1101	Librarian, Special (sp)
2329-A	0209-0106	Lecturer/Tutor, Religious Studies (Higher Education)	4041-A	0409-0101	Library Assistant (a)
2323-Z	0209-0199	Lecturer/Tutor, Revolutionary Studies (Higher Education) (sp)	4041-A	0409-0101	Library Attendant
2324-D	0209-0182	Lecturer/Tutor, Secondary Teacher Education (Higher Education)	4041-A	0409-0101	Library Attendant, Art Department (sp)
2320-B	0209-0103	Lecturer/Tutor, Secretarial Studies (Higher Education)	4041-A	0409-0101	Library Attendant, Audio-Visual (sp)
2323-H	0209-0161	Lecturer/Tutor, Social/Welfare Work (Higher Education)	4041-A	0409-0101	Library Attendant, Book Return (sp)
2323-I	0209-0163	Lecturer/Tutor, Sociology (Higher Education)	4041-A	0409-0101	Library Attendant, Braille and Talk Books (sp)
2323-Z	0209-0199	Lecturer/Tutor, Spanish and Latin American Studies (Higher Education) (sp)	4041-A	0409-0101	Library Attendant, Films and Recordings (sp)
2324-E	0209-0183	Lecturer/Tutor, Special Teacher Education (Higher Education)	2133-A	0311-9907	Library Technician
2325-Z	0209-0199	Lecturer/Tutor, Speech Therapy (Higher Education) (sp)	3011-B	0215-0703	Librettist (sp)
			6051-C	0701-2105	Licensed Aircraft Maintenance Engineer (sp)
			4223-Z	0601-0999	Licensed Testing Officer (sp)
			4034-A	0407-0701	Licensed Weigher
			4223-Z	0601-0999	Licensing Inspector (sp)
			3023-B	1203-0503	Lieder Singer (sp)
			4110-C	0501-0305	Life Assurance Representative
			4110-C	0501-0305	Life Insurance Representative (a)
			2019-Z	*	Life Science Occupations nec
			2014-Z	*	Life Science Technical Officers nec
			2015-Z	*	Life Science Technicians nec
			4110-C	0501-0305	Life Underwriter (a)
			4299-D	0611-9903	Lift Attendant (a)
			6109-B	0703-1503	Lift Electrician (a)
			6109-B	0703-1503	Lift Mechanic
			4299-D	0611-9903	Lift Operator
			6109-B	0703-1503	Lift Service Mechanic (sp)
			7193-A	0903-0301	Lift Truck Driver (a)
			4222-A	0601-0903	Lifts and Cranes Inspector (sp)
			9013-B	0311-0905	Light Technician
			7011-Z	0307-0799	Lighter Master (sp)
			7013-A	1101-3501	Lighterman/woman (sp)
			4299-Z	0611-9999	Lighthouse Keeper (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
2046-B	0301-0503	Lighting Technical Officer (sp)	1035-B	0403-0115	Loan Analyst (sp)
3020-D	0215-0907	Lighting Camera Operator (sp)	7019-Z	0909-0101	Lock Master (Water Transport) (sp)
2046-H	0301-0503	Lighting Design Draftsman/woman (sp)	6062-A	0701-2307	Locksmith
3028-A	0105-0107	Lighting Director (a)	7021-B	0901-0901	Locomotive Assistant
3028-A	0105-0107	Lighting Supervisor	7021-A	0901-0701	Locomotive Driver (a)
2047-B	0305-0301	Lighting Technician (sp)	7021-A	0901-0701	Locomotive Driver, Diesel (sp)
6411-A	0715-1501	Lightingware Blower (sp)	7021-A	0901-0701	Locomotive Driver, Freight (sp)
5001-A	0803-0101	Lime Grower (sp)	7021-A	0901-0701	Locomotive Driver, Passenger (sp)
7122-E	1017-0119	Lime Sacker (sp)	5304-C	0901-0903	Locomotive Driver, Underground Mine
2012-B	0201-1103	Limnologist (Freshwater) (sp)	7021-Z	*	Locomotive Driving Occupations nec
6110-B	0105-1105	Line Officer, Telecommunication (a)	7021-A	0901-0701	Locomotive Engine Driver (a)
6803-B	1101-1701	Line Repairer, Railway (sp)	7021-A	0901-0701	Locomotive Engineman/woman
6114-B	0703-2703	Line Serviceman/woman-in-Training, Telecommunication (sp)	7021-B	0901-0901	Locomotive Fireman/woman (a)
6201-C	0713-0703	Line Setter, Woodworking Machines (a)	6023-C	0701-0707	Locomotive Fitter (sp)
6110-B	0105-1105	Line Supervisor, Telecommunication (a)	7021-Z	0209-0799	Locomotive/Suburban Train Driving Instructor/Instructress (sp)
6111-C	0715-0901	Lineman/woman, Telecommunication (a)	6503-A	1013-0101	Loftsman/woman (Distillery) (sp)
6802-Z	0903-0799	Linemarkers, Road (sp)	6893-A	0713-2703	Loftsman/woman (Marine)
6114-B	0703-2703	Liner-in-Training, Telecommunication (sp)	6038-A	0713-2701	Loftsman/woman, Metal (sp)
6038-A	0713-2701	Liner-off (sp)	5219-Z	1101-3399	Log Chaser (sp)
3031-B	1205-0303	Linesman/woman (Sport) (sp)	5219-Z	1101-3399	Log Debarker (sp)
6190-C	0703-2703	Linesman/woman's Assistant	6205-Z	1007-0599	Log Handler (sp)
2109-Z	0217-0599	Linguist (sp)	7030-D	0901-0503	Log Hauler (sp)
6016-C	0715-0101	Linisher (sp)	5219-Z	1101-3399	Log Loader (sp)
6813-A	0713-3901	Linoleum Layer (sp)	5212-D	0903-0507	Log Loading Machine Operator
6399-A	1099-9903	Linoleum Maker	5219-Z	1101-3399	Log Measurer/Grader (sp)
6817-B	0705-1301	Linoleum Tile Floor Layer (sp)	6209-M	1007-0115	Log Preparer
6721-Z	0707-9901	Linotype Mechanic (sp)	5219-Z	1101-3399	Log Trimmer (sp)
6701-A	0707-0101	Linotype Operator (sp)	8020-C	1101-2903	Log Turner, Sawmill (sp)
5000-J	0801-0101	Linseed Grower (sp)	5001-A	0803-0101	Loganberry Grower (sp)
5012-A	0899-0999	Lion Tamer (sp)	5210-A	0105-1709	Logging Contractor (sp)
6503-Z	1013-0199	Liqueur Maker (sp)	2042-Z	0203-1199	Logging Engineer (Fluids Drilling) (sp)
6500-B	0105-1513	Liqueur Making Supervisor (sp)	5219-Z	*	Logging Occupations nec
6392-C	0905-0705	Liquid Gas Plant Operator	5210-Z	*	Logging Supervisors nec
6816-B	0705-0903	Liquid Petroleum Gasfitter (sp)	5302-C	0909-0711	Long Hole Drill Operator
712	1017-0105	Liquids Filler (sp)	5311-D	0903-0125	Longwall Miner Operator, Underground Coal Mine
3010-C	0215-0507	Literary Critic (sp)	6601-B	0701-1103	Loom Tuner (a)
6712-A	0707-0701	Lithographic Printing Machinist	5001-A	0803-0101	Loquat Grower (sp)
5000-I	*	Livestock Breeder	5000-B	0801-0301	Lot Feeder (sp)
5000-Z	*	Livestock Farmers and Field Crop Growers nec	4132-A	0505-0501	Lubritorium Attendant (a)
2010-D	0201-0707	Livestock Specialist (sp)	5000-Z	0801-0199	Lucerne Grower (sp)
4032-F	0407-0319	Load Controller, Air Transport	7101-B	0907-0103	Luffing-Crane Driver (sp)
9001-A	0409-0103	Load Dispatch Officer (sp)	6615-A	0713-2101	Luggage Maker (sp)
7191-B	1101-0503	Loader (sp)	6514-A	1013-1301	Lung Opener (sp)
6801-E	0903-0115	Loader Operator (a)	6514-A	1013-1301	Lung Washer (sp)
7191-B	1101-0503	Loader/Unloader (Road or Rail) (a)	5000-Z	0801-0199	Lupin Grower (sp)
5311-B	0903-0131	Loaderman/woman (sp)	4297-B	0713-2903	Luthier (a)

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6035-A	*	MIG Welder (sp)	6312-E	1005-0109	Machine Operator, Rigid Foam (sp)
5001-A	0803-0101	Macadamia Nut Grower (sp)	6404-H	1009-0313	Machine Operator, Stone
6524-I	1013-0915	Machine Attendant, Tobacco Processing and Tobacco Products Manufacturing	7122-Z	*	Machine Packaging Occupations nec
6701-A	0707-0101	Machine Compositor (sp)	6311-D	0701-0907	Machine Setter, Flexible Foam (sp)
5321-A	0909-0717	Machine Drillman/woman (a)	6404-C	1009-0325	Machine Setter, Porcelain Turning Machine (sp)
7122-Z	1017-0109	Machine Labeller (sp)	6311-D	0701-0907	Machine Setter, Rigid Foam (sp)
5302-D	0909-0713	Machine Miner (a)	6311-Z	*	Machine Setting Occupations, Plastics Products nec
5311-A	0903-0119	Machine Miner, Underground Coal Mine (a)	6209-F	1015-0119	Machine Stress Grader Operator
6005-A	1003-0305	Machine Moulder	6022-A	0701-0701	Machine Tool Setter (sp)
6729-A	0715-3305	Machine Operator (Printing) (a)	6024-A	0715-0301	Machine Tool Setter-Operator (a)
6404-D	1009-0305	Machine Operator, Cement Pipe	6023-C	0701-0707	Machine-Tool Fitter (sp)
6312-E	1005-0109	Machine Operator, Flexible Foam (sp)	5311-A	0903-0119	Machineman/woman Miner (a)
6191-A	1003-0713	Machine Operator, Process Work (Electrical and Electronic Equipment)			

Code A	Code B	TITLE	Code A	Code B	TITLE
6023-C	0701-0707	Machinery Fitter (a)	3039-A	0611-9919	Manager, Swimming Pool (sp)
5029-B	0903-0903	Machinery Operator, Amenity Horticulture (a)	3039-A	0611-9919	Manager, Tennis Club (sp)
6619-B	1011-0701	Machinist (Clothing) (a)	4291-E	0609-0107	Manager/Manageress, Children's Home (a)
6714-A	0715-3301	Machinist, Class One (Metropolitan Newspaper Press) (sp)	1020	0103-0100	Managing Director (sp)
6714-A	0715-3301	Machinist, Class Two (Metropolitan Newspaper Press) (sp)	4260-B	0105-0921	Managing Supervisor, Beauty Establishment
6022-A	0701-0701	Machinist, First Class	4230-C	0105-0901	Managing Supervisor, Dining Establishment
6714-A	0715-3301	Machinist, Metropolitan Newspaper Press	4230-E	0105-0905	Managing Supervisor, Fast Food Outlet
6024-A	0715-0301	Machinist, Second Class	4260-A	0105-0925	Managing Supervisor, Hairdressing Establishment
6621-B	0713-2309	Machinist, Shoemaking	4240-B	0105-0913	Managing Supervisor, Hotel/Motel/Lodging House
6404-H	1009-0313	Machinist, Stonemasonry (a)	4250-A	0105-0919	Managing Supervisor, Laundering and Dry-Cleaning Establishment
6082-F	1003-0711	Machinist, Third Class (a)	4260-C	0105-0923	Managing Supervisor, Massage Establishment
3023-D	1203-0507	Maestro (a)	5001-A	0803-0101	Mandarin Grower (sp)
3022-B	1203-0303	Magician (sp)	4297-B	0713-2903	Mandolin Maker/Repairer (sp)
2120-C	0211-0505	Magistrate (a)	5001-A	0803-0101	Mango Grower (sp)
2129-E	0499-0909	Magistrate's Clerk (a)	4263-A	0607-0101	Manicurist (sp)
5343-G	1001-0313	Magnetic Separator Attendant	3026-A	1203-0901	Mannequin (a)
6301-D	0303-0113	Magnetic Testing Technician (sp)	1025	0103-1100	Manpower Planning Manager (sp)
4052-B	0411-0303	Mail Officer	6036-A	1003-0903	Manual-Metal-Arc Welder (a)
4033-Z	0407-0305	Mail Order Clerk (sp)	2302-D	0207-0507	Manual/Industrial Arts Master/Mistress (sp)
6812-A	0705-0101	Maintenance Carpenter (sp)	4122-A	0503-0701	Manufacturer's Agent
2043-D	0203-1307	Maintenance Engineer (sp)	4122-A	0503-0701	Manufacturer's Representative (a)
2042-C	0203-1105	Maintenance Engineer, Electrical (sp)	1023	0103-0700	Manufacturing Controller (sp)
6023-B	0701-0705	Maintenance Fitter	1023	0103-0700	Manufacturing Manager (sp)
6803-B	1101-1701	Maintenance Man/Woman, Railway/Tramway (sp)	1023	0103-0700	Manufacturing Manager, Senior (sp)
6816-A	0705-0901	Maintenance Plumber (sp)	1023	0103-0700	Manufacturing Services Manager (sp)
4230-C	0105-0901	Maitre D'Hotel (a)	6503-A	1013-0101	Marc Still Operator (sp)
5000-J	0801-0101	Maize Grower (sp)	6504-G	1013-1101	Margarine Blender Operator (sp)
3028-B	0715-3701	Make-up Artist	6504-G	1013-1101	Margarine Maker
6302-K	1005-0917	Make-up Plant Operator (Chemicals)	2012-B	0201-1103	Marine Biologist (Salt-Water) (sp)
6524-F	1013-0911	Malt Process Worker (a)	7014-Z	0905-1399	Marine Boiler Attendant (sp)
6524-F	1013-0911	Malt Shiftperson (sp)	2000-B	0201-0103	Marine Chemist (sp)
6520-B	0105-1107	Malting Supervisor (sp)	7014-B	0905-1313	Marine Donkeyman/woman
6524-F	1013-0911	Maltster	7019-Z	*	Marine Education Officer (sp)
2012-M	0201-1125	Mammalogist (sp)	7014-A	0905-0503	Marine Engine Driver
1030-A	0213-0101	Management Accountant (sp)	6052-A	0709-0101	Marine Engine Mechanic (sp)
1031-A	0213-0301	Management Analyst (a)	7014-Z	0905-1399	Marine Engine and Boiler-Room Occupations nec
1026	0103-1300	Management Information Services Manager/Director (sp)	7019-A	0307-9907	Marine Engineer (a)
1026	0103-1300	Management Services Manager (Data Processing) (sp)	7019-A	0307-9907	Marine Engineer Officer
1021	0103-0300	Management Services Manager (Finance) (sp)	7010-D	0105-0117	Marine Engineer Superintendent
1039-Z	*	Management and Administrative Support Occupations nec	7010-B	0307-9909	Marine Engineer Surveyor
1020	0103-0100	Manager, Amenity Horticulture (sp)	7014-Z	0905-1399	Marine Fireman/woman (sp)
3039-A	0611-9919	Manager, Bowling Club (sp)	2001-A	0201-0301	Marine Geologist (sp)
3039-A	0611-9919	Manager, Country Club (sp)	2001-B	0201-0303	Marine Geophysicist (sp)
4230-E	0105-0905	Manager, Fast Food Outlet (a)	7014-C	0905-1311	Marine Greaser
1021	0103-0300	Manager, Finance and Administration (sp)	7014-Z	0905-1399	Marine Motorman/woman (sp)
3039-A	0611-9919	Manager, Golf Club (sp)	7014-C	0905-1311	Marine Oiler (a)
3039-A	0611-9919	Manager, Gymnasium (sp)	7011-A	0307-0701	Marine Pilot (a)
3039-A	0611-9919	Manager, Health Club/Spa (sp)	4295-A	0611-0901	Marine Steward/Stewardess
1025	0103-1100	Manager, Human Relations/Human Resources (sp)	7014-Z	0905-1399	Marine Stoker (sp)
4240-E	0605-0101	Manager, Lodging Establishment	7010-C	0105-0119	Marine Superintendent (Deck)
1025	0103-1100	Manager, Manpower Development (sp)	7010-A	0307-9911	Marine Surveyor
1025	0103-1100	Manager, Manpower Planning and Development (sp)	7014-Z	0905-1399	Marine Wiper (sp)
1039-G	0213-9905	Manager, Medical Record Services (a)	8020-A	1101-2901	Marker, Metal Processing (sp)
5000-F	0801-0309	Manager, Piggery (sp)	8030-B	1101-3103	Market Garden Labourer (sp)
4100-C	0105-0507	Manager, Real Estate Agents	5014-B	1101-3103	Market Garden Worker (sp)
4100-E	0105-0511	Manager, Shoe Department (sp)	5001-B	0803-0103	Market Gardener (sp)
3039-A	0611-9919	Manager, Ski Resort (sp)	4221-B	0601-0909	Market Inspector (sp)
3039-A	0611-9919	Manager, Sport Centre	6533-A	1013-0301	Market Milk Product Maker (sp)
3039-A	0611-9919	Manager, Squash Courts (sp)	2020-D	0217-0707	Market Research Analyst (sp)
			1022	0103-0500	Market Research Manager (sp)
			1022	0103-0500	Marketing Director (sp)
			1022	0103-0500	Marketing Manager (sp)
			1039-A	0213-9903	Marketing Officer (sp)
			1022	0103-0500	Marketing Services Manager (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
4299-Z	0611-9999	Marriage Celebrant (sp)	2002-Z	0201-0501	Measurement Physicist (sp)
2111-A	0211-0301	Marriage Counsellor (sp)	6514-C	1013-1305	Meat Boner
5001-B	0803-0103	Marrow Grower (sp)	6513-G	1013-0513	Meat By-Products Machine Operator
2129-H	0499-0901	Marshal (a)	6514-B	1013-1303	Meat Cutter
4264-A	0607-0301	Masseur/Masseuse	4100-D	0105-0509	Meat Department Supervisor (sp)
4264-A	0607-0301	Masseur/Masseuse, Reflexology (sp)	6505-A	1015-0131	Meat Grader
4264-A	0607-0301	Masseur/Masseuse, Shiatsu (Accupressure) (sp)	4221-A	0601-0905	Meat Inspector (sp)
4264-A	0607-0301	Masseur/Masseuse, Swedish Massage(sp)	7123-A	1101-0701	Meat Packer (sp)
5330-A	0105-1309	Master Driller (Fluids) (a)	6513-A	1013-0501	Meat Pickler (sp)
6031-B	0701-1303	Master Farrier (Apprenticed)	6513-A	1013-0501	Meat Press Operator (sp)
5100-B	0311-9903	Master Fisherman/woman, Danish Seine Vessel	6513-Z	*	Meat Processing Machine Operators nec
5109-Z	1101-3799	Master Fisherman/woman, Eel (sp)	6514-Z	1101-2917	Meat Refrigeration Hand (sp)
5109-Z	1101-3799	Master Fisherman/woman, Electro-Fishing (sp)	6513-A	1013-0501	Meat Roll Tier (sp)
5100-A	0311-9903	Master Fisherman/woman, Fish (Finned) Otter Trawling (sp)	6514-Z	1101-2917	Meat Shrouder (sp)
5100-D	0311-9903	Master Fisherman/woman, Gill Net Vessel	6514-D	1013-1303	Meat Slicer
5100-D	0311-9903	Master Fisherman/woman, Gill Net Vessel, Offshore Draft Fishing (sp)	6514-B	1013-1303	Meat Trimmer (sp)
5100-D	0311-9903	Master Fisherman/woman, Gill Net Vessel, Set and Ring Net Fishing (sp)	7123-A	1101-0701	Meat Wrapper (sp)
5100-F	0311-9903	Master Fisherman/woman, Longline and Dropline Vessel	6504-A	1013-1199	Meat and Vegetable Mixer (sp)
5100-A	0311-9903	Master Fisherman/woman, Mid-Water Trawling (sp)	6514-A	1013-1301	Meatworks Labourer, Knife
5100-A	0311-9903	Master Fisherman/woman, Pair Trawling (sp)	4221-A	0601-0905	Meatworks Standards Officer (sp)
5100-Z	0311-9903	Master Fisherman/woman, Pearling Vessel (sp)	6510-A	0105-1107	Meatworks Supervisor (a)
5100-J	0311-9903	Master Fisherman/woman, Pots and Traps Fishing Vessel	6023-B	0701-0705	Mechanic (Diesel and Heavy Earthmoving Equipment) (sp)
5100-A	0311-9903	Master Fisherman/woman, Prawn Otter Trawling (sp)	6105-B	0703-0701	Mechanic, Air-Conditioning (a)
5100-C	0311-9903	Master Fisherman/woman, Purse Seine Vessel	6051-A	0701-2101	Mechanic, Aircraft Engines (a)
5100-K	0311-9903	Master Fisherman/woman, Scallop and Shell Dredging Vessel	6052-C	0709-0105	Mechanic, Brake (a)
5100-Z	0311-9903	Master Fisherman/woman, Sea-Going Fishing Vessels (sp)	6052-B	0709-0103	Mechanic, Diesel (a)
5100-H	0311-9903	Master Fisherman/woman, Squid Jigging Vessel	6103-A	0703-0901	Mechanic, Electrical (a)
5100-A	0311-9903	Master Fisherman/woman, Trawl Net Vessel	6109-B	0703-1503	Mechanic, Lift (a)
5100-E	0311-9903	Master Fisherman/woman, Trolling and Handline Vessel	6052-A	0709-0101	Mechanic, Motor (a)
5100-G	0311-9903	Master Fisherman/woman, Tuna Pole and Live Bait Vessel	6729-A	0715-3305	Mechanical Binding Equipment Operator (sp)
5100-Z	*	Master Fishermen/women, Sea-Going Fishing Vessels nec	5304-B	0903-0121	Mechanical Bogger Driver
6611-A	0713-1501	Master Tailor (a)	2046-J	0301-0507	Mechanical Design Draftsman/woman (a)
2129-C	0211-0905	Master, Court	2047-H	0305-0701	Mechanical Detail Draftsman/woman (a)
7011-Z	0307-0799	Master, Dredge (sp)	6801-Z	*	Mechanical Earthmoving Plant Operating Occupations nec
7011-E	0307-0709	Master, Ferry Boat/Passenger Launch/River Boat	2043-B	0203-1303	Mechanical Engineer (Construction)
7011-B	0307-0703	Master, Ship	2043-C	0203-1305	Mechanical Engineer (Design)
7011-D	0307-0707	Master, Tug	2043-D	0203-1307	Mechanical Engineer (Operations)
9013-Z	0311-0999	Master-Control Equipment Operator (sp)	2043-E	0203-1309	Mechanical Engineer (Production)
7011-C	0307-0101	Mate, Ship	2043-A	0203-1301	Mechanical Engineer (Research)
4031-A	0407-0101	Material Co-ordinator (sp)	1047-H	0305-0701	Mechanical Engineering Drafting Assistant (a)
6619-A	1011-0703	Material Mender (sp)	2046-J	0301-0507	Mechanical Engineering Draftsman/woman (a)
2044-A	0203-1907	Materials Engineer	2046-D	0301-0507	Mechanical Engineering Technical Officer (a)
2047-D	0305-0701	Materials Handling Technician (sp)	2047-D	0305-0701	Mechanical Engineering Technician (sp)
7199-Z	*	Materials Handling Occupations nec	2043-Z	*	Mechanical Engineers nec
1023	0103-0700	Materials Manager (sp)	6023-C	0701-0707	Mechanical Fitter (a)
2002-Z	0201-0501	Materials Physicist (sp)	2002-Z	0201-0501	Mechanics Physicist (sp)
2003-A	0201-9903	Materials Scientist (Non-Metals)	2419-Z	*	Medical Assisting Occupations nec
2003-B	*	Materials Scientist (a)	1039-G	0213-9905	Medical Clerk (a)
2047-A	0305-0101	Materials Testing Technician (sp)	4054-A	0411-0701	Medical Courier (sp)
2412-A	0309-0301	Maternal and Child Health Nurse (sp)	2422-A	0311-0301	Medical Diagnostic Radiographer
2020-E	0217-0709	Mathematical Statistician	3001-E	0215-0309	Medical Illustrator (sp)
2020-A	0217-0701	Mathematician (General)	2420-B	0201-1303	Medical Laboratory Scientist
2020-Z	*	Mathematicians and Statisticians nec	2423-A	0303-0311	Medical Laboratory Technician
2302-A	0207-0513	Mathematics Master/Mistress (sp)	2420-B	0201-1303	Medical Laboratory Technologist (a)
5321-B	0909-0715	Mayhew Driller (a)	2420-C	0201-1305	Medical Microbiologist (sp)
			2422-B	0311-0509	Medical Nucleographer
			3000-B	0215-0103	Medical Photographer (sp)
			2420-A	0201-1301	Medical Physicist (sp)
			2400-A	0205-0101	Medical Practitioner, General
			2400-Z	*	Medical Practitioners nec, Non-Specialist (a)
			2401-Z	*	Medical Practitioners nec, Specialist (a)
			1039-G	0213-9905	Medical Record Administrator
			1039-G	0213-9905	Medical Record Adviser (sp)
			1039-G	0213-9905	Medical Record Consultant (sp)

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

\*: only coded in the other structure

Code A	Code B	TITLE	Code A	Code B	TITLE
1039-G	0213-9905	Medical Record Librarian (a)	2014-C	0301-0305	Microbiology Technical Officer (a)
1039-G	0213-9905	Medical Record Officer (a)	4021-Z	0405-0199	Microfilm Records Searcher (sp)
2429-Z	*	Medical Science Occupations nec	9013-C	0311-0907	Microphone Boom Operator
7121-A	0407-0325	Medical Storeman/woman (sp)	2412-B	0309-0303	Midwifery Nurse
1020	0103-0100	Medical Superintendent (sp)	2414-B	0609-0399	Midwifery Nursing Aide (sp)
2422-C	0311-0303	Medical Therapeutic Radiographer	2410-B	0105-0115	Midwifery Supervisor (Nursing) (sp)
5001-B	0803-0103	Melon Grower (sp)	4291-B	0499-0301	Migrant Aide (sp)
6000-B	0105-1309	Melter, Steelmaking (sp)	2119-D	0311-0107	Migrant Information Officer (sp)
6524-E	1013-0909	Melthouse Attendant (sp)	2101-D	0217-0307	Military Psychologist (sp)
1000-A	0101-0101	Member of Parliament	6533-A	1013-0301	Milk Processing Equipment Operator (a)
1000-A	0101-0101	Member of the House of Representatives (sp)	6534-A	1013-1507	Milk Processing Worker (sp)
1000-A	0101-0101	Member of the Legislative Assembly (sp)	7030-D	0901-0503	Milk Tanker Operator (sp)
1000-A	0101-0101	Member of the Legislative Council (sp)	6533-A	1013-0301	Milk Treater
2120-D	0211-0507	Member, Administrative Appeals Tribunal	4130-C	0505-0311	Milk Vendor (sp)
2120-E	0211-0509	Member, Industrial Tribunal	6505-C	1015-0135	Milk/Cream Grader (sp)
6619-A	1011-0703	Mender, Textile Products	4130-C	0505-0311	Milkman/woman (sp)
6619-A	1011-0703	Mender, Tufted Carpets (sp)	6406-C	1009-0321	Mill Tender, Clay Processing (sp)
2119-D	0311-0107	Mental Health Welfare Officer (sp)	5000-J	0801-0101	Millet Grower (sp)
2412-C	0309-0305	Mental Retardation Nurse	6619-C	0715-2307	Milliner
4121-B	0503-0503	Mercantile Agent (a)	6619-C	0715-2307	Millinery Maker (a)
6302-G	1005-2125	Mercaptans Unit Operator (sp)	6024-A	0715-0301	Milling Machine Operator (sp)
7019-A	0307-9907	Merchant Service Engineer Officer (a)	6022-A	0701-0701	Milling Machinist (sp)
7011-B	0307-0703	Merchant Ship's Captain (a)	6023-B	0701-0705	Millwright (sp)
5000-D	0801-0305	Merino Wool Producer (sp)	3021-Z	1203-0199	Mime (sp)
4054-A	0411-0701	Messenger	6513-A	1013-0501	Mincer Operator (sp)
7039-B	0901-0307	Messenger, Road Transport (a)	5390-Z	*	Mine Cage Operating Occupations nec
3003-Z	0715-1999	Metal Craftworker (sp)	1023	0103-0700	Mine Captain (sp)
6082-C	1003-1105	Metal Dipper (sp)	6103-A	0703-0901	Mine Electrician (sp)
6059-Z	*	Metal Fabricating, Assembling, Maintaining and Repairing Occupations nec	1023	0103-0700	Mine Manager (sp)
6037-A	0701-1703	Metal Fabricator	2045-D	0203-1501	Mine Planning Engineer (sp)
6037-B	0701-1705	Metal Fabricator, Structural (a)	2045-D	0203-1501	Mine Production Engineer (sp)
6037-A	*	Metal Fabricator/Marker-off (sp)	5320-A	0105-1501	Mine Production Foreman/woman (a)
6037-A	*	Metal Fabricator/Welder (sp)	5320-D	0105-1303	Mine Production Shift Foreman/woman (a)
6029-Z	*	Metal Machining Occupations nec	5393-C	1001-0701	Mine Sampler (Open Cut, Non-Coal)
2002-E	0201-0509	Metal Physicist (sp)	5393-A	1001-0701	Mine Sampler (Underground, Non-Coal)
6015-C	0701-0303	Metal Polisher and Buffer (a)	5393-Z	*	Mine Sampling Occupations nec
6015-C	0701-0303	Metal Polisher, First Class	1023	0103-0700	Mine Superintendent (sp)
6016-C	0715-0101	Metal Polisher, Second Class	5300-C	0105-1701	Mine Ventilation Engineer (a)
6015-C	0701-0303	Metal Polishing and Buffing Machine Operator (a)	5300-C	0105-1701	Mine Ventilation Officer (a)
6006-B	1003-0303	Metal Pourer (a)	5391-Z	*	Mineral Exploration Drilling Occupations nec
6019-Z	*	Metal Processing Occupations nec	5349-Z	*	Mineral Ore Treating Occupations nec
3000-D	0215-0107	Metal Sculptor (sp)	2005-B	0303-0103	Mineral Separation Technician (sp)
6049-A	1003-0709	Metal Shaping and Forming Machine Operator	2042-Z	0203-1199	Mines Electrical Engineer (sp)
6049-Z	*	Metal Shaping and Forming Machine Operators nec	4222-A	0601-0903	Mines Inspector (sp)
6040-A	0701-1901	Metal Spinner	3000-A	0215-0101	Miniature Painter (sp)
6016-B	1003-0703	Metal Sprayer	2100-G	0217-0113	Mining Analyst (sp)
6035-A	1003-0901	Metal-Inert-Gas (MIG) Welding Machine Operator (sp)	2047-Z	0305-9999	Mining Detail Draftsman/woman (sp)
2003-B	0203-1703	Metallographer (sp)	2045-D	0203-1501	Mining Engineer
2044-B	0203-1701	Metallurgical Engineer	2001-A	0201-0301	Mining Geologist (sp)
2047-Z	0305-9903	Metallurgical Technician (sp)	2052-B	0203-0503	Mining Surveyor (sp)
2003-B	0203-1703	Metallurgist	2049-Z	0305-9905	Mining Technician (sp)
2009-B	0303-0109	Meteorological Observer	5399-Z	*	Mining and Related Occupations nec
2004-B	0301-0103	Meteorological Technical Officer (a)	2200-A	0211-1101	Minister (Christian)
2001-C	0201-0305	Meteorologist	2200-Z	*	Ministers of Religion nec
6190-C	0703-2703	Meter Fixer (sp)	5001-B	0803-0103	Mint Grower (sp)
6061-A	0701-2301	Meter Mechanic (sp)	6016-C	0715-0101	Mirror Polisher (Cutlery) (sp)
4099-E	0499-9903	Meter Reader	2209-Z	1201-0199	Missionary (sp)
4042-B	0409-0303	Meter Records Clerk	5000-A	0801-0501	Mixed Farmer (a)
2043-E	0203-1309	Methods Engineer (sp)	5000-A	0801-0317	Mixed Livestock Farmer (sp)
1027	0103-1500	Methods Engineering Manager (sp)	6302-D	1005-2115	Mixer (Chemicals)
1031-A	*	Methods and Procedures Analyst	6082-A	0909-0319	Mixer Attendant (Carbon Plant) (sp)
4210-A	0105-0701	Metropolitan Area Superintendent (sp)	6513-A	1013-0501	Mixer Operator, Food Processing (sp)
2012-I	0201-1117	Microbiologist	6341-A	*	Mixer Operator, Explosives
			9013-Z	0311-0999	Mobile Broadcasting Equipment Set-up Person (sp)
			7101-A	0907-0101	Mobile Crane Driver

Code A	Code B	TITLE	Code A	Code B	TITLE
7101-A	0907-0101	Mobile Crane Operator (a)	7021-A	0901-0701	Motorman/woman, Railway (a)
4041-A	0409-0101	Mobile Library Attendant (sp)	7014-Z	0905-1399	Motorman/woman, Ship
4217-C	0601-1113	Mobile Patrol Officer (a)	6406-C	1009-0321	Mould Feeder, Clay Processing (sp)
3026-A	1203-0901	Model	6313-C	1005-0305	Mould Hand (Plastics)
6032-A	0701-1501	Model Maker (Metal) (a)	6302-Z	1005-2199	Mould Maker (sp)
3028-F	0705-0113	Model Maker, Cinema and Television (sp)	6003-A	0701-0103	Moulder (a)
6404-Z	1009-0399	Model Maker, Pottery (sp)	6003-A	0701-0103	Moulder (a)
6201-B	0713-0503	Model Maker, Wood	6206-E	1007-0123	Moulder Operator, Sawmill
6404-E	1009-0307	Model and Mould Maker, Concrete Products (sp)	6404-B	1009-0303	Moulder/Machine Operator, Fibre-Cement
6404-E	1009-0307	Model and Mould Maker, Plaster (sp)	4213-A	0601-0101	Mounted Police Officer (sp)
3000-D	0215-0107	Modeller (sp)	2045-Z	0203-1999	Mud Engineer (sp)
2302-A	0207-0513	Modern Languages Master/Mistress (sp)	2001-A	0201-0301	Mud Logger (sp)
2209-Z	1201-0199	Mohel (sp)	5001-A	0803-0101	Mulberry Grower (sp)
2012-C	0201-1105	Molecular Biologist (Biochemistry) (sp)	6604-E	1011-0105	Mule Spinner (sp)
2012-H	0201-1115	Molecular Biologist (Genetics) (sp)	4299-A	0611-9909	Multilingual Interpreter (sp)
2012-D	0201-1107	Molecular Biophysicist (sp)	6619-B	1011-0701	Multi-Needle Machine Operator (sp)
2012-H	0201-1115	Molecular Geneticist (sp)	6342-B	1005-1503	Munitions Hand
7101-C	0907-0105	Monorail Crane Driver (sp)	6342-C	1005-1505	Munitions Handler
3000-D	0215-0107	Monument Sculptor (sp)	6342-A	1005-1501	Munitions Maker
6401-A	0705-1501	Monumental Mason (a)	4292-C	0611-0305	Museum Guide (sp)
2012-A	0201-1101	Morphologist (a)	2130-Z	0217-9999	Museum Registrar (sp)
4290-A	0611-0101	Mortician (a)	2131-A	0311-9905	Museum Technician
6817-B	0705-1301	Mosaic Tiler (sp)	2130-Z	*	Museum and Art Gallery Occupations (Professional) nec
2414-A	0609-0301	Mothercraft Nurse	2139-Z	*	Museum, Library and Archives Occupations nec
9013-F	0311-0901	Motion Picture Camera Operator	5001-Z	0803-0199	Mushroom Grower (sp)
9012-A	0715-4301	Motion Picture Projectionist	8030-B	1101-3103	Mushroom Picker (sp)
7030-A	0901-0101	Motor Bus Driver (a)	3024-B	0215-1103	Music Arranger
7039-A	0209-0711	Motor Bus Driving Instructor/Instructress (sp)	3024-C	0215-1105	Music Copyist
7039-A	0209-0711	Motor Car Driving Instructor/Instructress (sp)	3010-C	0215-0507	Music Critic (sp)
2046-H	0301-0503	Motor Control Draftsman/woman (sp)	2302-E	0207-0515	Music Master/Mistress (sp)
7039-A	0209-0711	Motor Cycle Driving Instructor/Instructress (sp)	3023-F	0209-0703	Music Teacher nec (sp)
3032-B	1205-0503	Motor Cyclist, Speedway (sp)	2404-Z	0205-9999	Music Therapist (sp)
6052-A	0709-0101	Motor Mechanic	4297-Z	*	Musical Instrument Repairing Occupations nec
6052-B	0709-0103	Motor Mechanic, Diesel (a)	6541-A	1013-0703	Mustard Pickle Maker (sp)
7039-B	0901-0307	Motor Scooter Courier (sp)	6514-C	1013-1305	Mutton Boner (sp)
7019-A	0307-9907	Motor Vessel Engineer Officer (a)	6514-D	1013-1303	Mutton Slicer (sp)
6052-A	0709-0101	Motorcycle Mechanic (sp)	2015-C	0303-0305	Mycological Technician (sp)
5335-B	0909-1103	Motorman/woman (Fluids Drilling) (sp)	2012-E	0201-1109	Mycologist (sp)

## N

6623-Z	1011-0999	Nail Cutter/Shocker (sp)	2101-A	0217-0301	Neuropsychologist (sp)
1010-A	0103-1900	National Director (Government Agency) (sp)	2401-Z	0205-0399	Neurosurgeon (sp)
1020	0103-0100	National Gallery Manager (sp)	2412-Z	0309-0399	Neurosurgical Nurse (sp)
1022	0103-0500	National Sales Manager (sp)	6302-A	1005-2107	Neutralisation Operator (sp)
2409-B	0205-9999	Natural Therapist	4019-A	0403-9901	New Issues/Dividends Clerk (sp)
2409-B	0205-9999	Naturopath (sp)	4130-H	0505-0115	Newsagent (sp)
2045-C	0203-1905	Naval Architect	3010-B	0215-0503	News Editor (a)
7011-Z	0307-0799	Navigating Officer, Ship (sp)	4131-B	0505-0303	News Vendor (a)
7002-Z	0209-0713	Navigation Instructor/Instructress, Aircraft (sp)	4131-B	0505-0303	Newsboy/girl (a)
6514-E	1013-1307	Neck Trimmer (sp)	4131-B	0505-0303	Newspaper Carrier (sp)
5001-A	0803-0101	Nectarine Grower (sp)	4131-B	0505-0303	Newspaper Vendor
6606-B	1011-0517	Needle Loom Operator	1023	0103-0700	Newspaper/Periodical Editor (sp)
6394-A	1005-1901	Negative Contact Frame Operator (sp)	6016-A	1003-0701	Nickel Plater (sp)
6394-A	1005-1901	Negative Cutter (sp)	7020-B	0105-0335	Night Officer, Rail Transport (a)
6394-A	1005-1901	Negative Producer (sp)	6302-A	1005-2107	Nitration Operator (sp)
2012-J	0201-1119	Nematologist (sp)	6341-C	1005-1305	Nitrator Tender (a)
6413-D	0713-0307	Neon-Sign Bender (a)	6014-E	1003-0509	Nitride (sp)
6413-D	0713-0307	Neon-Sign Pumpman/woman (sp)	6341-C	1005-1305	Nitrocellulose Maker
6413-D	0713-0307	Neon-Tube Bender (sp)	6341-C	1005-1305	Nitroglycerin Neutraliser (a)
2401-Z	0205-0399	Nephrologist (sp)	6341-C	1005-1305	Nitroglycerin Nitrator (a)
1026	0103-1300	Network Manager (sp)	6303-A	1015-0141	Non-Destructive Testing Assistant (sp)
2012-A	0201-1101	Neuroanatomist (sp)	6301-D	0303-0113	Non-Destructive Testing Technician
2012-L	0201-1123	Neurophysiologist (sp)	2003-B	0203-1703	Non-Ferrous Metallurgist (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
7123-Z	*	Non-Machine Packaging Occupations nec	2410-A	0105-0113	Nurse Educator
6511-B	0711-0303	Non-Retail Butcher	2411-A	0309-0101	Nurse, General Registered (a)
2400-Z	*	Non-Specialist Medical Practitioners nec	5029-C	1101-9901	Nursery Assistant (Horticulture) (a)
6504-B	1013-1103	Noodle Maker (sp)	5029-C	1101-9901	Nursery Attendant (Horticulture)
3011-A	0215-0701	Novelist (sp)	5020-A	0105-1113	Nursery Foreman/woman (a)
6203-E	0713-3703	No. 2 Benchman/woman, Resaw Operator (sp)	5029-C	1101-9901	Nursery Hand (Horticulture) (a)
2000-B	0201-0103	Nuclear Chemist (sp)	5021-A	0713-3101	Nursery Man/Woman
2420-Z	0201-1399	Nuclear Medicine Scientist (sp)	2412-Z	0309-0399	Nurses (Specialist) nec
2401-Z	0205-0399	Nuclear Medicine Specialist (sp)	2414-B	0609-0399	Nursing Aide (a)
2002-D	0201-0507	Nuclear Physicist	2410-B	0105-0115	Nursing Supervisor
2002-D	0201-0507	Nuclear Reactor Physicist (sp)	2410-Z	*	Nursing Supervisory Occupations nec
7029-C	0903-9903	Number Taker, Railway (sp)	8030-B	1101-3103	Nut Picker (sp)
2209-A	1201-0101	Nun/Monk	2404-F	0205-9903	Nutritionist (a)
2410-B	0105-0115	Nurse Administrator (a)			

## O

5000-J	0801-0101	Oats Grower (sp)	5320-F	0105-1311	Open Cut Examiner
3023-C	1203-0505	Oboist (sp)	5320-F	0105-1311	Open Cut Safety Supervisor (a)
5335-E	1101-2307	Observer Helper, Gravity Prospecting	6001-A	0909-0307	Open Hearth Furnace Operator
5335-F	1101-2309	Observer Helper, Seismic Prospecting	4033-D	0407-0507	Open Hearth-Pit Recorder (sp)
2005-C	0303-0105	Observer, Gravity Prospecting (sp)	3023-B	1203-0503	Opera Singer (sp)
2005-G	0303-0105	Observer, Seismic Prospecting (sp)	2419-E	0609-0507	Operating Theatre Attendant (sp)
2401-H	0205-0305	Obstetrician and Gynaecologist	2412-Z	0309-0399	Operating Theatre Nurse (sp)
2412-Z	0309-0399	Occupational Health Nurse (sp)	2410-B	0105-0115	Operating Theatre Nursing Supervisor (sp)
2401-C	0205-0399	Occupational Health Specialist (a)	7002-C	0307-0505	Operations Controller, Air Transport (Government)
2101-D	0217-0307	Occupational Psychologist	1023	0103-0700	Operations Manager (Manufacturing) (sp)
2404-B	0205-0901	Occupational Therapist	1023	0103-0700	Operations Manager (sp)
2419-Z	0609-0599	Occupational Therapy Aide (sp)	1026	0103-1300	Operations Manager (Data Processing) (sp)
2401-D	0205-0307	Oculist (a)	2020-F	0217-0711	Operations Research Analyst
2010-Z	0201-0713	Oenologist (sp)	6521-B	0711-0503	Operative Baker (a)
6514-A	1013-1301	Offal Separator (sp)	5029-B	0903-0903	Operator, Amenity Horticulture Machinery
4021-Z	*	Office Business Machine Operators nec	6011-A	0905-1117	Operator, Main Pulpit (a)
6061-B	0701-2303	Office Machine Mechanic (a)	2403-D	0311-0505	Ophthalmic Dispenser (a)
1021	0103-0300	Office Manager (sp)	6412-B	0713-0103	Ophthalmic Lens Surfacar and Fitter
6061-B	0701-2303	Office Mechanical Equipment Serviceman/woman	2401-D	0205-0307	Ophthalmologist
7192-A	0901-0507	Office Removalist (sp)	2403-D	0311-0505	Optical Dispenser
4001-A	0401-0101	Office Secretary	6419-Z	1009-0199	Optical Element Coater (sp)
611	0105-1105	Officer, Telecommunication (sp)	6419-Z	1009-0199	Optical Glass Etcher (sp)
9010-C	0105-0105	Officer-in-Charge, Backpack (sp)	6412-B	0713-0103	Optical Glass Worker (a)
4211-C	0105-0713	Officer-in-Charge, Fire Station (sp)	6412-B	0713-0103	Optical Mechanic (a)
4210-C	0105-0705	Officer-in-Charge, Police Diving Section (sp)	2002-C	0201-0505	Optical Spectroscopist (sp)
4210-C	0105-0705	Officer-in-Charge, Police Special Branch (a)	2403-Z	0311-0599	Optical Technician (sp)
4210-C	0105-0705	Officer-in-Charge, Police Special Section	2002-Z	0201-0501	Optics Physicist (sp)
4210-C	0105-0705	Officer-in-Charge, Police Special Squad (a)	2004-C	0301-0105	Optics Technical Officer (sp)
4210-B	0105-0703	Officer-in-Charge, Police Station	2404-G	0205-1101	Optometrist
4210-D	0105-0707	Officer-in-Charge, Police Training Institution	2402-B	0205-0503	Oral Pathologist (sp)
4210-B	0105-0703	Officer-in-Charge, Traffic Patrol (sp)	2402-B	0205-0503	Oral Surgeon (sp)
5333-B	0715-3901	Offshore Diver	5001-A	0803-0101	Orange Grower (sp)
5335-B	0909-1103	Offsider, Service-Rig Operator (a)	5001-A	0803-0101	Orchard Fruit Grower (sp)
7112-C	0909-0101	Oil Movements Operator	5014-B	1101-3103	Orchard Hand (sp)
3000-A	0215-0101	Oil Painter (sp)	4221-B	0601-0909	Orchard Inspector (sp)
5339-B	0203-1999	Oil Pipe Inspector	8030-B	1101-3103	Orchard Labourer/Worker (sp)
6205-F	1007-0509	Oil Tempering Machine Operator	5001-A	0803-0101	Orchard Manager (sp)
5332-J	0909-0105	Oil and Gas Tester (a)	5001-A	0803-0101	Orchardist (sp)
5000-J	0801-0101	Oilseed Grower (sp)	3023-D	1203-0507	Orchestra Conductor
6524-C	1013-0905	Oilseed Processing Operator	3023-D	1203-0507	Orchestra Leader (a)
5001-B	0803-0103	Olericulturist (sp)	3024-D	0215-1107	Orchestrator
5001-A	0803-0101	Olive Grower (sp)	4031-A	0407-0101	Order Clerk (sp)
1009-Z	0101-0307	Ombudsman/woman (sp)	7121-A	*	Order Picker (sp)
3039-B	0499-9915	On Course Bookmaker (a)	7193-A	0903-0301	Order Picker Operator (sp)
2412-Z	0309-0399	Oncological Nurse (sp)	7013-A	1101-3501	Ordinary Seaman/woman (sp)
5001-B	0803-0103	Onion Grower (sp)	2044-B	0203-1701	Ore Dressing Engineer (sp)
5333-C	0715-3903	Onshore Construction Diver (sp)	5323-D	0901-0509	Ore and Mullock Truck Driver (a)
5333-C	0715-3903	Onshore Diver			

Code A	Code B	TITLE	Code A	Code B	TITLE
1031-B	0213-0303	Organisational Analyst	6111-B	0703-1103	Outside Broadcasting Tradesperson (sp)
3023-C	1203-0505	Organist (sp)	6209-D	0909-0509	Ovens and Humidifier Operator
6032-B	0701-1503	Ornamental Sheet Metal Worker (sp)	5320-B	0105-1309	Overburden Foreman/woman (sp)
2012-M	0201-1125	Ornithologist (sp)	7101-C	0907-0105	Overhead Electric Travelling Crane Operator (a)
2403-B	0713-3501	Orthodontic Technician (sp)	6619-B	1011-0701	Overlocker (sp)
2402-B	0205-0503	Orthodontist (sp)	5310-A	0105-1311	Overman/woman, Underground Coal Mine (sp)
2412-Z	0309-0399	Orthopaedic Nurse (sp)	5010-A	0899-0501	Overseer, Farm
2401-I	0205-0309	Orthopaedic Specialist	5010-B	0899-0503	Overseer, Shearing Shed
2404-C	0205-9905	Orthoptist	5010-A	0899-0501	Overseer, Stud Farm (sp)
2409-A	0205-1703	Osteopath (sp)	6302-A	1005-2107	Oxidation Operator (sp)
1009-Z	0101-0301	Other Elected and Appointed Government Officials nec	6399-A	1099-9903	Oxidiser, Linoleum Oils (a)
4239-Z	*	Other Food and Beverage Preparation and Related Service Occupations nec	6036-B	1003-0905	Oxy-acetylene Welder/Cutter (a)
6721-Z	*	Other Printing Trade Occupations nec (a)	6001-C	0909-0311	Oxygen (BOS) Furnace Operator
2401-M	0205-0323	Otorhinolaryngologist	4033-D	0407-0507	Oxygen Furnace-Pit Recorder (sp)
2119-E	0311-0109	Outreach Worker, Youth (sp)	5109-A	1101-3701	Oyster Grower
4032-Z	0407-0315	Outward Freight Clerk (sp)	5109-B	1101-3703	Oyster Grower's Assistant
			6514-Z	1101-2917	Oyster Opener (sp)

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6035-A	1003-0901	PA Welder (sp)	2012-J	0201-1119	Parasitologist
3001-B	0215-0303	Package Designer (sp)	4299-H	0605-0109	Parents' Helper (sp)
8020-I	1101-2917	Package Handler, Abattoir Freezers (sp)	2209-B	1201-0103	Parish Assistant (sp)
7122-A	1017-0101	Packaging Line Machine Operator, General (Except Food and Chemical)	4240-F	0605-0103	Park Manager, Caravan
7122-G	1017-0117	Packaging Machine Feeder	2019-B	0311-9911	Park Ranger
7122-Z	*	Packaging Occupations, Machine nec (a)	2019-B	0311-9911	Park Superintendent (sp)
8000-E	1101-1701	Packer, Railway (sp)	2019-B	0311-9911	Park Warden (a)
6504-H	1013-1113	Packerman/woman, Grain (sp)	4223-Z	0601-0999	Parking Inspector (sp)
2412-Z	0309-0399	Paediatric Nurse (sp)	2121-C	0211-0705	Parliamentary Counsel
2401-K	0205-0315	Paediatrician	2119-B	0311-0103	Parole Officer
2410-B	0105-0115	Paediatrics Supervisor (Nursing) (sp)	5001-B	0803-0103	Parsley Grower (sp)
2402-B	0205-0503	Paedodontist (sp)	5001-B	0803-0103	Parsnip Grower (sp)
6302-D	1005-2115	Paint Maker (sp)	6205-Z	*	Particleboard and Hardboard Manufacturing Occupations nec
6604-A	1011-0301	Paint Table Operator, Fellmongery (sp)	6892-C	1101-1107	Partition Fixer (sp)
3000-A	0215-0101	Painter (Artistic) (a)	4033-Z	0407-0599	Parts Lister (sp)
6814-A	0705-0501	Painter and Decorator	1035-Z	0213-9999	Passenger and Freight Rates Analyst (sp)
6891-A	1101-1199	Painter and Decorators' Assistant (sp)	403	0407-0311	Passenger Superintendent Clerk (sp)
6814-A	0705-0501	Painter, Construction (a)	5001-A	0803-0101	Passionfruit Grower (sp)
6814-C	0705-0505	Painter, Industrial	8030-B	1101-3103	Passionfruit Picker (sp)
6891-A	1101-1199	Painters' Assistant (sp)	6504-B	1013-1103	Pasta Maker (sp)
6814-A	0705-0501	Painting Contractor (sp)	3002-C	0311-0705	Paste-up Artist
6814-A	0705-0501	Painting Sub-contractor (sp)	6533-A	1013-0301	Pasteuriser Operator (sp)
2001-B	0201-0303	Palaeomagnetist (sp)	2200-A	0211-1101	Pastor (sp)
2001-A	0201-0301	Palaeontologist (sp)	2209-Z	1201-0199	Pastoral Worker (sp)
2005-B	0303-0103	Palaeontology Technician (sp)	6521-A	0711-0501	Pastrycook
2001-A	0201-0301	Palynologist (sp)	6520-A	0105-1107	Pastrygoods Supervisor (sp)
6053-A	0709-0301	Panel Beater	2014-A	0301-0301	Pastural Technical Officer (sp)
6201-A	0713-0701	Panel Saw Operator (sp)	2129-I	0211-0709	Patent Attorney
5000-J	0801-0101	Panicum Seed Grower (sp)	2129-J	0211-0907	Patent Examiner
4239-A	1101-2925	Pantrymaid/man (a)	2420-C	0201-1305	Pathologist
5001-A	0803-0101	Papaw Grower (sp)	6803-B	1101-1701	Patrolman/woman, Railway (sp)
3003-Z	0715-1999	Paper Craftworker (sp)	8000-D	1101-1501	Patrolman/woman, Road Maintenance (sp)
6222-I	1007-0919	Paper Machine Hand	9006-C	0601-0937	Patrolman/woman, Utilities
6222-A	1007-0903	Paper Machine Operator	6004-A	0701-0101	Patternmaker (Automotive) (sp)
6222-L	1007-0923	Paper Product Fabricating and Assembling Machine Operator	6004-A	0701-0101	Patternmaker (Engineering) (sp)
6222-J	1015-0123	Paper Tester	6004-A	0701-0101	Patternmaker, Metal Casting
6222-B	1007-0907	Paperboard Machine Operator	6032-A	0701-1501	Patternmaker, Metal Furniture (sp)
6504-H	1013-1113	Paperbox Liquid Filler (Food Products) (sp)	6032-A	0701-1501	Patternmaker, Sheet and Structural Metal
6814-B	0705-0503	Paperhanger	*	0713-0501	Patternmaker, Wood (sp)
6222-Z	*	Papermaking and Paper Product Fabricating Occupations nec	6612-B	0715-2305	Patternmaker/Grader (Textiles)
2404-Z	*	Paramedical Practitioners nec	6802-A	0903-0701	Paving Machine Operator
			6802-Z	*	Paving and Surfacing Plant Operating Occupations nec

Code A	Code B	TITLE	Code A	Code B	TITLE
4139-D	0505-9907	Pawnbroker	2001-A	0201-0301	Photogeologist (sp)
4010-E	0403-0111	Pay Clerk (a)	2052-B	0203-0503	Photogrammetric Surveyor (sp)
6801-D	0903-0107	Pay-Scraper Operator (a)	2053-E	0301-0707	Photogrammetrist (sp)
4010-E	0403-0111	Paymaster/mistress	3002-D	0311-0707	Photograph Retoucher
4011-F	0403-0111	Payroll Clerk	3000-B	0215-0103	Photographer
5001-B	0803-0103	Pea Grower (sp)	3002-E	0311-0709	Photographer's Assistant (a)
5001-A	0803-0101	Peach Grower (sp)	6394-A	1005-1901	Photographic Developer and Printer
5000-Z	0801-0199	Peanut Farmer (sp)	6702-C	0707-0307	Photopolymer Plate Preparer
5001-A	0803-0101	Pear Grower (sp)	4099-Z	0499-9999	Photoprint Checker (sp)
8030-B	1101-3103	Pear Picker (sp)	6701-A	0707-0101	Phototypesetter (sp)
9022-C	0715-3903	Pearl Diver (sp)	3039-Z	1205-9999	Physical Fitness Adviser, Sport (sp)
5109-Z	1101-3799	Pearl Farmer (sp)	2001-D	0201-0307	Physical Geographer
5001-A	0803-0101	Pecan Nut Grower (sp)	2003-B	0203-1703	Physical Metallurgist (sp)
2010-F	0201-0711	Pedologist (sp)	2001-B	0201-0303	Physical Oceanographer (sp)
5349-A	1001-0501	Pellet Disc Operator (sp)	2009-Z	*	Physical Science Occupations nec
5349-A	1001-0501	Pellet Drum Operator (sp)	2004-Z	*	Physical Science Technical Officers nec
5349-A	1001-0501	Pellet Drum/Disc Operator	2005-Z	*	Physical Science Technicians nec
5341-B	0905-1103	Pellet Plant Control Room Operator (sp)	6303-A	1015-0113	Physical Testing Assistant (sp)
5344-B	0909-0303	Pellet Roaster Attendant (a)	6301-A	0303-0113	Physical Testing Technician
7101-Z	0907-0199	Pendant Controlled Overhead Crane Operator (sp)	2401-Z	0205-0399	Physical and Rehabilitation Medicine Specialist (sp)
4297-Z	0713-2999	Percussion Instrument Repairer (sp)	2002-A	0201-0501	Physicist (General)
3023-C	1203-0505	Percussionist (sp)	2002-Z	0201-0501	Physicists nec
5001-A	0803-0101	Perennial Horticultural Crop Grower (sp)	2004-C	0301-0105	Physics Technical Officer (a)
3023-Z	*	Performing Musicians nec	2005-E	0303-0111	Physics Technician
3028-Z	0715-3799	Performing and Audio-Visual Arts Support Occupations nec	2012-L	0201-1123	Physiologist
9013-Z	*	Performing and Audio-Visual Arts Equipment Operators nec	2404-D	0205-1301	Physiotherapist
2402-B	0205-0503	Periodontist (sp)	2419-Z	0609-0599	Physiotherapy Aide (sp)
1010-A	0103-1900	Permanent Head (Government Department) (sp)	3023-C	1203-0505	Pianist (sp)
5001-A	0803-0101	Persimmon Grower (sp)	4297-A	0713-2901	Piano Tuner/Repairer
4001-A	0401-0101	Person Friday (a)	6082-C	1003-1105	Pickler (Metal Finishing) (sp)
1025	0103-1100	Personnel Administration Manager (sp)	6504-D	1013-1199	Pickling Solution Maker (sp)
1032-A	0213-0501	Personnel Officer	3010-A	0215-0501	Picture Editor (sp)
1032-C	0213-0505	Personnel Officer (Manpower Planning and Development) (a)	6212-B	0713-1103	Picture Frame Maker (a)
4091-A	0499-0501	Personnel Records Clerk	6212-B	0713-1103	Picture Framar
4091-A	0499-0501	Personnel Records Clerk, Absences (sp)	5014-C	1101-3105	Piece Picker (sp)
4091-A	0499-0501	Personnel Records Clerk, Salaries (sp)	5000-I	0801-0309	Pig Breeder (sp)
1025	0103-1100	Personnel Research Specialist (sp)	8020-I	1101-2917	Pig Carcass Conveyor (sp)
1025	0103-1100	Personnel Superintendent (sp)	5000-F	0801-0309	Pig Farmer
1025	0103-1100	Personnel Supervisor (sp)	6514-A	1013-1301	Pig Sticker (sp)
4091-A	0499-0501	Personnel Support Clerk (a)	6302-I	1005-2117	Pigment Filterer (sp)
1025-C	0103-1105	Personnel and Industrial Relations Manager (Lower Level)	6302-B	1005-2119	Pilot Plant Operator (Chemicals)
1025-B	0103-1103	Personnel and Industrial Relations Manager (Middle Level)	4213-Z	0601-0199	Pilot, Police Air Wing (sp)
1025-A	0103-1101	Personnel and Industrial Relations Manager (Senior Level)	7011-A	0307-0701	Pilot, Ship
4299-F	0611-9907	Pest Control Operator	4132-E	1101-9913	Pin Ball Machine Attendant (sp)
4299-F	0611-9907	Pest Control Serviceman/woman (a)	7101-A	0907-0101	Pin-Jib Crane Driver (sp)
4299-F	0611-9907	Pest Control Technician (a)	5001-A	0803-0101	Pineapple Grower (sp)
6302-D	1005-2115	Pesticide Mixer (sp)	8030-B	1101-3103	Pineapple Picker (sp)
6504-A	1013-1199	Pet Food Processing Machine Operator (sp)	9006-B	0705-0903	Pinpointer (sp)
2045-Z	0203-1999	Petroleum Engineer (sp)	6037-A	0701-1703	Pipe Bender (sp)
2001-A	0201-0301	Petroleum Geologist (sp)	6816-D	0705-0907	Pipe Fitter (Plumbing)
2001-A	0201-0301	Petrologist (sp)	5339-B	0203-1999	Pipe Inspector (Oil) (a)
6301-C	1015-0143	Pharmaceutical Inspector (a)	6816-D	0705-0907	Pipe Jointer (a)
6331-A	1005-0901	Pharmaceutical Operator	6890-E	0715-1109	Pipe Lagger (a)
2421-Z	*	Pharmacists nec	6891-A	1101-1101	Pipe Layer (Non-Trade Worker) (sp)
2012-K	0201-1121	Pharmacologist	6816-D	0705-0907	Pipe Layer (a)
4053-D	0411-0507	Phonogram Operator	6816-D	0705-0907	Pipe Laying Contractor (sp)
6701-A	0707-0101	Photo Compositor (sp)	4297-Z	0713-2999	Pipe Organ Builder/Repairer (sp)
9019-A	0405-0309	Photo-Radio Operator (sp)	5332-K	0909-0107	Pipe Tester
6061-B	0701-2303	Photocopier Mechanic (sp)	6301-D	0303-0113	Pipe Testing Technician (sp)
6702-A	0707-0301	Photoengraving Camera Operator (sp)	6890-E	0715-1109	Pipe-Covering-Machine Operator (sp)
			6890-E	0715-1109	Pipe-Joint Doper (sp)
			6890-E	0715-1109	Pipe-Joint Lagger (sp)
			2041-B	0203-0903	Pipeline Design Engineer (sp)
			5390-B	0907-0309	Pit Bottomer (a)
			4030-B	0105-0319	Pit Controller (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
8010-A	1101-2301	Pit Crew Worker (a)	6319-Z	*	Plastics Production Occupations nec
5320-D	0105-1303	Pit Foreman/woman, Open Cut Mine (a)	6319-B	1005-0311	Plastics Sheet Fabricator
5390-B	0907-0309	Pithead Man/Woman (a)	6312-H	1005-0115	Plastics Sheet Press Operator
1032-E	0499-0505	Placement Officer (a)	4099-Z	0499-9907	Plate Embosser (sp)
6621-B	0713-2309	Plain Machinist (Shoemaking) (sp)	6413-A	0713-0301	Plate Glass Installer (sp)
6619-B	0713-2309	Plain Machinist (sp)	6702-B	0707-0303	Plate Maker (a)
6206-E	1007-0123	Planer Operator, Sawmill (a)	6702-B	0707-0303	Plate Preparer
6702-B	0707-0303	Planner, Composing (sp)	6702-A	0707-0301	Plate Printer (a)
2331-A	0217-0903	Planning Officer (TAFE) (a)	6302-I	1005-2117	Plate and Frame Operator (sp)
2102-A	0217-0501	Planning Officer (sp)	6803-B	1101-1701	Platelayer
2012-E	0201-1109	Plant Anatomist (sp)	5390-B	0907-0309	Platman/woman
4240-A	0105-0911	Plant Engineer (Building) (sp)	4291-Z	0609-0199	Play Leader (sp)
2043-D	0203-1307	Plant Engineer (sp)	3011-A	0215-0701	Playwright (sp)
1027	0103-1500	Plant Engineering Manager (sp)	5001-A	0803-0101	Plum Grower (sp)
6023-B	0701-0705	Plant Fitter-Mechanic (sp)	6816-A	0705-0901	Plumber
2012-E	0201-1109	Plant Geneticist (sp)	6816-A	0705-0901	Plumber Welder (sp)
5021-A	0713-3101	Plant Information Officer, Nursery Sales (sp)	6816-A	0705-0901	Plumber and Drainer (a)
8010-C	1101-2301	Plant Labourer, Mineral Ore Treating (sp)	6816-A	0705-0901	Plumber and Gasfitter (a)
1023	0103-0700	Plant Manager (sp)	6816-A	0705-0901	Plumber, Drainer and Gasfitter (a)
6023-B	0701-0705	Plant Mechanic (sp)	6816-A	0705-0901	Plumber, Mechanical Services (sp)
2012-E	0201-1109	Plant Morphologist (sp)	6891-A	1101-1101	Plumbers' Assistant (sp)
6351-D	0909-0101	Plant Operator (Oil Terminal)	6816-A	0705-0901	Plumbing Contractor (sp)
5343-J	1001-0319	Plant Operator, Alluvial Separation (sp)	6816-A	0705-0901	Plumbing Sub-contractor (sp)
6801-A	*	Plant Operator, Earthmoving	6204-C	1007-0307	Plywood and Veneer Repairer
5212-A	0903-0501	Plant Operator, Felling and Processing	2409-C	0205-1901	Podiatrist
5201-A	1101-3301	Plant Operator, Forestry (sp)	3011-A	0215-0701	Poet (sp)
6351-B	0905-0903	Plant Operator, Grease Manufacture	6803-B	1101-1701	Points Cleaner, Railway (sp)
6351-A	0905-0901	Plant Operator, Petroleum Process Units	6059-A	0715-4901	Poker Machine Mechanic (sp)
6351-C	0909-0117	Plant Operator, Pumping, Blending and Shipping (Petroleum Products)	8020-C	1101-2903	Pole Peeling Machine Loader (sp)
6302-Z	*	Plant Operators, General Chemical Processing nec	4219-Z	0601-9903	Police Cadet (sp)
6312-Z	*	Plant Operators, Plastics Products nec	4213-A	0601-0101	Police Constable, Dog Squad (sp)
2010-E	0201-0709	Plant Pathologist (sp)	4213-D	0601-0107	Police Constable, Scientific Branch (sp)
2015-C	0303-0305	Plant Pathology Technician (sp)	4213-Z	0601-0199	Police Diver (sp)
1025	0103-1100	Plant Personnel Manager (sp)	4213-B	0601-0103	Police Occupations nec
2012-E	0201-1109	Plant Physiologist (sp)	4213-A	0601-0101	Police Officer, Criminal Investigation Branch (a)
5021-A	0713-3101	Plant Propagator (a)	4213-C	0601-0105	Police Officer, General Duties
5021-A	0713-3101	Plant Propagator, Nursery Sales (sp)	4213-D	0601-0107	Police Officer, Protective Service
5021-A	0713-3101	Plant Propagator, Pine Seedlings (sp)	4213-D	0601-0107	Police Officer, Scientific Branch
2010-E	0201-0709	Plant Scientist	4213-D	0601-0107	Police Officer, Scientific Investigation (a)
1023	0103-0700	Plant Superintendent (sp)	3000-B	0215-0103	Police Photographer (sp)
2012-E	0201-1109	Plant Taxonomist (sp)	4213-A	0601-0101	Police Sergeant (sp)
1023	0103-0700	Plant/Factory/Operations Manager (sp)	2401-Z	0205-0399	Police Surgeon (sp)
2002-Z	0201-0501	Plasma Physicist (sp)	4213-A	0601-0101	Policeman/woman (a)
6016-B	1003-0703	Plasma Sprayer (a)	6322-Z	1005-0799	Poling Operator (Rubber) (sp)
6035-A	1003-0901	Plasma-Arc (PA) Welding Machine Operator (sp)	6404-Z	1009-0399	Polisher (Abrasive Wheels) (sp)
6404-Z	1009-0399	Plaster Die Maker (sp)	2109-Z	0217-0513	Political Scientist (sp)
6814-B	0705-0703	Plasterboard Fixer (a)	2000-B	0201-0103	Polymer Chemist (sp)
6406-A	1009-0317	Plasterboard Knife Operator (sp)	2044-A	0203-1907	Polymer Engineer (sp)
6406-A	1009-0317	Plasterboard Loader Operator (sp)	2003-A	0201-9903	Polymer Scientist (sp)
6406-A	1009-0317	Plasterboard Maker	2040-C	0203-0705	Polymerisation Research Engineer (sp)
6406-A	1009-0317	Plasterboard Mixing Operator (sp)	2010-E	0201-0709	Pomologist (sp)
6406-A	1009-0317	Plasterboard Tester (sp)	3022-Z	*	Popular Entertainers and Stage Performers nec
6815-B	0705-0703	Plasterer, Fibrous	3023-E	1203-0509	Popular Singer
6815-A	0705-0701	Plasterer, Solid	2012-H	0201-1115	Population Geneticist (sp)
6891-A	1101-1101	Plasterers' Assistant (sp)	6404-C	1009-0325	Porcelain Turner
6815-A	0705-0701	Plastering Sub-contractor (sp)	6514-C	1013-1305	Pork Boner (sp)
6504-H	1013-1113	Plastic Bag Filler (Food Products) (sp)	6505-A	1015-0131	Pork Grader (sp)
6021-B	0701-0503	Plastic Mould Maker (sp)	6514-D	1013-1303	Pork Slicer (sp)
2401-O	0205-0399	Plastic Surgeon	7191-A	1101-0305	Porter-Loader (Aircraft) (a)
2401-O	0205-0399	Plastic and Reconstructive Surgeon (a)	3000-A	0215-0101	Portrait Painter (sp)
2412-Z	0309-0399	Plastic and Reconstructive Surgery Nurse (sp)	3000-B	0215-0103	Portrait Photographer (sp)
6312-A	1005-0101	Plastics Blending Machine Operator	7119-Z	0907-0599	Positioner Operator (sp)
3003-Z	0715-1999	Plastics Craftworker (sp)	6621-B	0713-2309	Post Machinist (Shoemaking) (sp)
6302-D	1005-2115	Plastics Mixer (sp)	4052-A	0411-0301	Postal Clerk
			4052-C	0411-0305	Postal Officer
			4052-D	0411-0307	Postman/woman

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

\*: only coded in the other structure

Code A	Code B	TITLE	Code A	Code B	TITLE
4050-B	0105-0329	Postmaster/mistress (a)	2120-E	0211-0509	Presidential Member, Industrial Tribunal (sp)
6002-A	0909-0313	Pot Operator (Aluminium)	6205-A	1007-0501	Press Line Operator, Particleboard Manufacture
6503-A	1013-0101	Pot Still Operator (sp)	6322-Z	1005-0799	Press Moulding Machine Operator (sp)
6513-G	1013-0513	Pot Tender (sp)	1039-A	0213-9903	Press Officer (sp)
5001-B	0803-0103	Potato Grower (sp)	6082-F	1003-0711	Press Operator (Metal) (sp)
2001-B	0201-0303	Potential Field Geophysicist (sp)	6209-A	1007-0315	Press Operator (Wood Processing)
3003-A	0715-1901	Potter	6404-G	1009-0311	Press Operator, Clay Products
3001-C	0215-0305	Pottery Designer (sp)	6205-E	1007-0507	Press Operator, Hardboard Manufacture
6302-Z	1009-0399	Pottery Mould Maker (sp)	6222-K	1007-0921	Press Operator, Insulation Board
6514-E	1013-1307	Poultry Boner	3000-B	0215-0103	Press Photographer (sp)
5000-G	0801-0311	Poultry Farmer, Egg Production	6021-B	0701-0503	Press-Tool Maker (sp)
5000-H	0801-0313	Poultry Farmer, Gamebirds (sp)	4255-A	1101-2701	Presser, Laundry
5000-H	0801-0313	Poultry Farmer, Meat Production	6604-C	1011-0107	Pressman/woman (sp)
6514-F	1013-1309	Poultry Grader (sp)	6312-F	1005-0111	Pressure Forming Machine Operator (sp)
6514-F	1013-1309	Poultry Hanger (sp)	6301-D	0303-0113	Pressure Testing Technician (sp)
6514-F	1013-1309	Poultry Offal Separator (sp)	6070-A	0701-2501	Pressure Weld Inspector
6514-F	1013-1309	Poultry Processing Worker	6034-A	0701-1701	Pressure Welder
6514-F	1013-1309	Poultry Rehanger (sp)	6393-B	1005-1703	Pressurised Container Filler
6513-C	1013-0505	Poultry Saws Operator	4223-A	0601-0901	Preventative Officer (Customs) (a)
2010-C	0201-0705	Poultry Scientist (sp)	2200-A	0211-1101	Priest (sp)
6514-F	1013-1309	Poultry Slaughterman/woman (sp)	5341-C	0905-1105	Primary Crusher Operator (a)
2015-A	0303-0301	Poultry Technician (sp)	4221-A	0601-0905	Primary Products Inspector, Animals
2014-A	0301-0301	Poultry Technologist (sp)	4221-B	0601-0909	Primary Products Inspector, Plants
6514-F	1013-1309	Poultry Yardman/woman (sp)	6404-H	1009-0313	Primary Sawyer, Stone (sp)
6623-C	1011-0903	Pounder (Shoemaking) (sp)	2301-B	0207-0303	Primary School Teacher
6341-B	1005-1303	Powder Blender, Explosives	2301-C	0207-0305	Primary School Teacher, Arts and Crafts
6313-A	1005-0301	Powder Hand (Plastics)	2301-B	0207-0303	Primary School Teacher, Correspondence (sp)
4033-Z	0407-0599	Powder Magazine Attendant (sp)	2301-F	0207-0311	Primary School Teacher, Librarian
5322-A	0715-3103	Powder Monkey (Open Cut Mining) (a)	2301-D	0207-0307	Primary School Teacher, Music
5303-A	0715-3101	Powder Monkey (Underground Mining) (a)	2301-E	0207-0309	Primary School Teacher, Physical Education
5303-A	0715-3101	Powder Monkey, Development (sp)	1000-A	0101-0101	Prime Minister (sp)
2042-C	0203-1105	Power Line Construction Engineer (sp)	1020	0103-0100	Principal (Educational Institution) (sp)
6101-A	0703-0101	Power Linesman/woman	4220-A	0105-0721	Principal Animal Health Officer (sp)
9000-C	0905-0301	Power Plant Controller	1027	0103-1500	Principal Electrical Engineer, Communications/Generation/Transmission Development (sp)
9001-B	0905-0303	Power Plant Unit Operator	1027	0103-1500	Principal Engineering Executive (sp)
2042-C	0203-1105	Power Station Construction Engineer (sp)	1010-C	0103-1900	Principal Executive Officer (Public Service) (sp)
2042-C	0203-1105	Power Station Engineer (sp)	1021	0103-0300	Principal Finance Executive (sp)
2043-D	0203-1307	Power Station Engineer, Mechanical (sp)	1020	0103-0100	Principal Librarian (sp)
9000-B	0105-1305	Power Station Shift Supervisor	1023	0103-0700	Principal Manufacturing Executive (sp)
5332-A	0909-0905	Power Tong Operator	1028	0103-1700	Principal Scientist (Agriculture, Chemistry, Geology, Pharmacology, Physics, Biology) (sp)
6100-A	0105-1105	Powerline Supervisor (a)	1020	0103-0100	Principal Scientist (sp)
5102-C	1101-3503	Prawn Fisherman/woman	6394-A	1005-1901	Print Finisher (sp)
5102-C	1101-3503	Prawner (a)	6394-A	1005-1901	Print Quality Examiner (sp)
6209-A	1007-0315	Pre (or Cold) Press Operator (Wood Processing) (sp)	6394-A	1005-1901	Printer Tender (sp)
4291-A	0609-0101	Pre-Primary School Aide (a)	6394-A	1005-1901	Printer, Motion Picture Film (sp)
2300-A	0207-0101	Pre-Primary School Teacher	6729-A	0715-3305	Printing Machine Operator
2330-Z	0217-0999	Pre-School Adviser (sp)	6729-Z	*	Printing Non-Trade Occupations nec
4291-A	0609-0101	Pre-School Aide, Non-Certificated	6710-A	0105-1109	Printing Press Room Supervisor
2300-A	0207-0101	Pre-School Teacher (a)	6721-Z	*	Printing Trade Occupations (Other) nec
6063-D	0713-1307	Precious Metal Smith	3003-Z	0715-1999	Printing/Batik Craftworker (sp)
6063-C	0713-1305	Precious Stone Setter (sp)	3000-C	0215-0105	Printmaker
6302-I	1005-2117	Precipitate Filterer (sp)	4215-A	0601-0501	Prison Officer
5343-E	1001-0309	Precipitator Attendant	4216-B	0601-0703	Private Detective (a)
6412-A	0713-0101	Precision Grinder	4001-C	0401-0105	Private Secretary (sp)
6061-A	0701-2301	Precision Instrument Maker and Repairer	230	0209-0709	Private Tutor (sp)
1000-A	0101-0101	Premier (sp)	2119-C	0311-0105	Probation Officer
6540-A	0105-1513	Preparation Supervisor, Fruit and Vegetable Processing (sp)	2042-D	0203-1107	Process Control Design Engineer (sp)
2131-A	0311-9905	Preparator (a)	2046-E	0301-0509	Process Control Maintenance Technical Officer (sp)
5309-B	0909-0115	Prepman/woman (sp)	2046-E	0301-0509	Process Control Technical Officer (a)
6504-D	1013-1199	Preservatives Maker (sp)	2047-C	0305-0501	Process Control Technician (sp)
6540-A	0105-1513	Preserving Supervisor, Fruit and Vegetable Processing (sp)	6702-A	0707-0301	Process Engraver (a)
1000-A	0101-0101	President of the Senate (sp)	6082-G	1015-0101	Process Inspector (Metal Products) (a)
2120-D	0211-0507	Presidential Member, Administrative Appeals Tribunal (sp)	6191-C	1015-0107	Process Inspector, Electrical and Electronic

Code A	Code B	TITLE	Code A	Code B	TITLE
		Equipment (a)			
6503-B	1013-0103	Process Operator, Brewhouse (a)	4031-A	0407-0101	Production/Scheduling Clerk
6416-A	1015-0125	Process Quality Control Verifier, Glassware (sp)	3032-Z	1205-0599	Professional Athlete (sp)
4099-F	0499-0913	Process Server	2051-A	0203-0301	Professional Builder (a)
6082-E	1003-1107	Process Worker, Assembly (Metal)	3032-Z	1205-0599	Professional Cricket Player (sp)
6191-B	1003-1109	Process Worker, Electrical and Electronic Equipment	3032-Z	1205-0599	Professional Football Player (sp)
			3032-Z	1205-0599	Professional Golfer (sp)
6407-A	1009-0323	Process Worker, Fibre-Cement	2000-A	0201-0101	Professional Officer, Chemistry (a)
6082-D	1003-1113	Process Worker, Jewellery Assembly	3032-Z	1205-0599	Professional Tennis Player (sp)
6082-F	1003-0711	Process Worker, Machine Operation (Metal)	3032-Z	1205-0599	Professional Wrestler (sp)
6623-A	1011-0901	Process Worker, Shoe Cutting	6404-H	1009-0313	Profile Planer, Stone (sp)
6623-D	1011-0905	Process Worker, Shoe Finishing	1023	0103-0700	Program Arranger (sp)
6623-B	1011-0907	Process Worker, Shoe Machining	1023	0103-0700	Program Manager (sp)
6623-C	1011-0903	Process Worker, Shoemaking	6201-A	0713-0701	Program Router Operator (sp)
6191-C	1015-0107	Process Worker, Testing (Electrical and Electronic Equipment)	1023	0103-0700	Programmer (Broadcasting) (sp)
			2030-E	0213-0799	Programmer-in-Training (a)
6082-G	1015-0101	Process Worker, Testing and Examining (Metal)	2030-A	0213-0701	Programming Consultant (sp)
6332-Z	*	Process Workers, Pharmaceuticals and Toiletries Products nec	1026	0103-1300	Programming Manager (Computing) (sp)
			1027	0103-1500	Project Engineering Manager (sp)
6313-Z	*	Process Workers, Plastics Products nec	1028	0103-1700	Project Geologist (sp)
6531-B	0711-0703	Processed Cheesemaker (sp)	1028	0103-1700	Project Geophysicist (sp)
4033-B	0407-0503	Procurement Clerk (a)	1026	0103-1300	Project Manager, Systems (sp)
1024	0103-0900	Procurement Controller (sp)	1039-A	0213-9903	Promotions Officer (sp)
1024	0103-0900	Procurement Manager (sp)	4099-A	0499-9911	Proof-Reader
4033-B	0213-9901	Procurement Officer (sp)	3028-F	0705-0113	Prop Maker
4100-D	0105-0509	Produce Department Supervisor (sp)	6341-B	1005-1303	Propellant Blender (sp)
3020-G	0215-0913	Producer (Broadcasting) (a)	4033-Z	0407-0599	Properties Custodian (sp)
1023	0103-0700	Producer (Films and Stage) (sp)	1034-F	0213-9913	Properties Investment Manager
1039-Z	*	Producer's Assistant (sp)	4111-B	0501-0503	Property Manager (Real Estate)
3001-C	0215-0305	Product Designer (a)	4111-B	0501-0503	Property Manager, Commercial/Industrial Property (sp)
1022	0103-0500	Product Manager (sp)			
1039-Z	*	Production Assistant (Television, Films and Stage) (sp)	4111-B	0501-0503	Property Manager, Holiday Letting (sp)
			4111-B	0501-0503	Property Manager, Residential Property (sp)
6303	1005-2301	Production Assistant, Chemicals and Related Products (sp)	4111-B	0501-0503	Property Manager, Strata Title (sp)
4031-A	0407-0101	Production Co-ordinator (sp)	3039-Z	1205-9999	Property Steward (sp)
4031-A	0407-0101	Production Control Clerk (sp)	3028-C	0499-9919	Property Supervisor (Performing Arts)
2046-D	0301-0507	Production Control Technical Officer, (sp)	2409-D	0205-9907	Prosthetist/Orthotist
1023	0103-0700	Production Controller (sp)	2402-B	0205-0503	Prosthodontist (sp)
5320-B	0105-1309	Production Drilling Superintendent (Open Cut Mining) (a)	*	0607-9901	Prostitute (sp)
			2013-A	0201-0901	Protection Forester (sp)
1023	0103-0700	Production Engineering Manager (sp)	4213-C	0601-0105	Protective Service Constable (sp)
6023-C	0701-0707	Production Fitter (a)	4210-A	0105-0701	Protective Service Inspector (sp)
1023-C	0103-0705	Production Manager (Lower Level)	4213-C	0601-0105	Protective Service Senior Constable (sp)
1023-B	0103-0703	Production Manager (Middle Level)	4213-C	0601-0105	Protective Service Senior Sergeant (sp)
1023-A	0103-0701	Production Manager (Senior Level)	4213-C	0601-0105	Protective Service Sergeant (sp)
1023	0103-0700	Production Manager (Television, Films and Stage) (sp)	4219-Z	*	Protective and Investigative Occupations nec
			2129-B	0211-0903	Prothonotary (a)
1023	0103-0700	Production Manager (sp)	2012-J	0201-1119	Protozoologist (sp)
1023	0103-0700	Production Manager, State (sp)	2412-D	0309-0307	Psychiatric Nurse
2047-D	0305-0701	Production Planning Officer (sp)	2401-E	0205-0311	Psychiatrist
1023	0103-0700	Production Planning/Control Manager (sp)	2410-B	0105-0115	Psychiatry Nursing Supervisor (sp)
1023	0103-0700	Production Planning/Control Supervisor (sp)	2101-Z	*	Psychologists nec
6016-A	1003-0701	Production Plater (a)	1030-A	0213-0101	Public Accountant (sp)
1023	0103-0700	Production Superintendent (sp)	2401-B	0205-0399	Public Health and Preventive Medicine Specialist
1023	0103-0700	Production Supervisor (sp)	1039-A	0213-9903	Public Relations Officer
5330-B	0105-1309	Production Supervisor, Oil and Natural Gas Wells (a)	1039-A	0213-9903	Publications Officer (sp)
			2130-Z	0217-9999	Publications Officer (Museum and Art Gallery) (sp)
4033-Z	*	Production Supply Clerk (sp)	1039-A	0213-9903	Publicity Officer (a)
5332-J	0909-0105	Production Testing Operator (a)	7122-Z	1017-0199	Publishing Hand (sp)
6082-C	1003-1105	Production Worker, Metal Finishing	6621-C	0713-2301	Puller, Footwear (a)
6082-B	1003-1103	Production Worker, Metal Processing	6221-G	0905-1129	Pulp Dryer Operator (Papermaking)
6404-Z	*	Production and Forming Machine Operators, Clay and Stone Products nec	6221-Z	*	Pulp Preparing Occupations nec
			6221-F	1007-0901	Pulp Refiner Operator (Papermaking)
2004-D	0301-0107	Production and Quality Control Technologist (sp)	6221-I	1015-0121	Pulp Tester (Papermaking)
1023	0103-0700	Production/Industrial Engineering Superintendent/Supervisor (sp)	9000-B	0105-1305	Pulverised Fuel (Coal) Power Station Shift Supervisor (sp)
			2043-C	0203-1305	Pump Design Engineer (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
5001-B	0803-0103	Pumpkin Grower (sp)	1033-B	0213-9901	Purchasing Officer (Livestock) (sp)
5343-J	1001-0319	Pumpman/woman (sp)	1033-C	0213-9901	Purchasing Officer (Material)
7013-A	1101-3501	Punt Worker (sp)	1033-B	0213-9901	Purchasing Officer (Milk) (sp)
7013-A	1101-3501	Puntman/woman (sp)	1033-C	0213-9901	Purchasing Officer (Office Equipment) (sp)
3021-Z	1203-0199	Puppeteer (sp)	1024	0103-0900	Purchasing Officer (Senior)
4033-B	0407-0503	Purchasing Clerk (sp)	1033-B	0213-9901	Purchasing Officer (Vegetables) (sp)
1024	0103-0900	Purchasing Manager (sp)	1024	0103-0900	Purchasing Superintendent (sp)
4033-B	0213-9901	Purchasing Officer	2020-B	0217-0703	Pure Mathematician (Research) (sp)
1033-A	0213-9901	Purchasing Officer (Business Services)	6302-A	1005-2107	Purification and Reaction Operator (sp)
1033-B	0213-9901	Purchasing Officer (Fish) (sp)	6524-A	1013-0901	Purifierman/woman (sp)
1033-B	0213-9901	Purchasing Officer (Food and Related Products)	4294-A	*	Purser (Aircraft) (a)
1033-B	0213-9901	Purchasing Officer (Fruit) (sp)	4299-Z	0611-0901	Purser (Ship) (sp)
1033-C	0213-9901	Purchasing Officer (Iron Ore) (sp)	2044-B	0203-1701	Pyrometallurgical Engineer (sp)

## Q

1023	0103-0700	Quality Assurance Manager (sp)	6612-E	1015-0129	Quality Control Inspector, Jackets (sp)
2020-D	0217-0707	Quality Control Analyst (sp)	6070-B	0701-2503	Quality Control Inspector, Metal Processing, Machining, Shaping and Forming
6505-C	1015-0135	Quality Control Assistant (Food and Related Products) (sp)	6612-E	1015-0129	Quality Control Inspector, Shirts (sp)
2000-Z	0201-0101	Quality Control Chemist (sp)	1023	0103-0700	Quality Control Manager (sp)
2043-E	0203-1309	Quality Control Engineer (sp)	5393-D	1001-0705	Quality Control Supervisor (Coal Mining) (a)
6071-B	1015-0103	Quality Control Inspector (Metal Products) nec	1023	0103-0700	Quality Controller (sp)
6505-C	1015-0135	Quality Control Inspector, Animal Food Products (sp)	6614-D	1015-0139	Quality Controller, Furniture, Cushions and Covers
6109-Z	0105-1105	Quality Control Inspector, Electrical Products/Equipment (sp)	2051-B	0203-0303	Quantity Surveyor
6612-E	1015-0129	Quality Control Inspector, Apparel	4221-B	0601-0909	Quarantine Assistant/Inspector (sp)
6612-E	1015-0129	Quality Control Inspector, Foundation Garments (sp)	7011-Z	0307-0799	Quartermaster, Ship (sp)
			5001-A	0803-0101	Quince Grower (sp)

## R

2200-B	0211-1103	Rabbi	5001-B	0803-0103	Radish Grower (sp)
5000-I	0801-0399	Rabbit Breeder (sp)	6803-B	1101-1701	Rail Adjuster (sp)
5000-Z	0801-0399	Rabbit Breeder (sp)	7021-A	0901-0701	Rail Car Driver (sp)
5109-D	1101-3707	Rabbit Hunter (sp)	7021-A	0901-0701	Rail Motor Driver (sp)
3031-A	1205-0301	Racecourse Official, Dog (a)	7029-Z	0601-0999	Railway Barrier Supervisor (sp)
3031-A	1205-0301	Racecourse Official, Horse (a)	4295-C	0611-0903	Railway Conductor, Sleeping Car
9013-Z	0311-0999	Racecourse Photo-Finish Camera Operator (sp)	4217-Z	0601-1199	Railway Crossing Attendant (sp)
5399-Z	*	Radiation Assistant, Uranium Mining/Processing (sp)	4216-A	0601-0701	Railway Detective (a)
			7021-A	0901-0701	Railway Engine Driver (a)
2012-D	0201-1107	Radiation Biophysicist (sp)	7029-Z	0601-0999	Railway Gatekeeper (sp)
2401-F	0205-0313	Radiation Oncologist (sp)	4216-A	0601-0701	Railway Investigator
2002-B	0201-0503	Radio Astronomer (sp)	7029-Z	0601-0999	Railway Officer, Rail Transport (sp)
6111-B	0703-1103	Radio Broadcasting Tradesperson (sp)	4217-A	0601-1101	Railway Patrol Officer
2042-B	0203-1103	Radio Engineer (sp)	7029-Z	0601-0999	Railway Platform Supervisor (sp)
4223-Z	0601-0999	Radio Interference Inspector (sp)	7029-Z	0601-0999	Railway Pointsman/woman (sp)
6111-C	0715-0901	Radio Lineman/woman (sp)	4295-B	1101-0301	Railway Porter, Luggage
2046-C	0301-0505	Radio Maintenance Officer (sp)	7029-Z	0601-0999	Railway Switchman/woman (sp)
6113-A	0703-1301	Radio Mechanic (sp)	6803-Z	*	Railway Track Construction Occupations nec
9011-Z	0311-9901	Radio Officer, Water Transport (sp)	6803-B	1101-1701	Railway Track Packer (sp)
4032-E	0407-0317	Radio Operator (Dispatch) (a)	7029-Z	0905-1199	Railway Transport Operating Occupations nec
9011-A	0311-9901	Radio Operator, Aircraft (a)	7029-Z	0905-1199	Railway Turntable Hand (sp)
9011-A	0311-9901	Radio Operator, Ship (a)	6103-A	0703-0901	Railway Workshop Electrician (sp)
2047-C	0305-0501	Radio Technician (sp)	2041-A	0203-0901	Railways Construction Engineer (sp)
9011-A	0311-9901	Radio Telegraphist	5302-B	0909-0709	Raise Boring Machine Operator
4032-E	0407-0317	Radio Telephone Operator (a)	5302-B	0909-0709	Raise Drill Operator (a)
9011-Z	*	Radio and Telegraph Operators nec	6404-G	1009-0311	Ram Press Operator (sp)
6112-A	0703-1301	Radio and Television Repairer (a)	2019-B	0311-9911	Ranger (a)
6112-A	0703-1301	Radio and Television Tradesperson	5000-J	0801-0101	Rapeseed Grower (sp)
2422-Z	*	Radiographers nec	5001-A	0803-0101	Raspberry Grower (sp)
2401-F	0205-0313	Radiologist	4299-F	0611-9907	Ratman/woman (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
9013-Z	0311-0999	Re-recording Mixer (sp)	6815-A	0705-0701	Renderer (a)
7193-A	0903-0301	Reach Truck Driver (sp)	6513-G	1013-0513	Rendering Equipment Tender (sp)
5349-C	1001-0505	Reagent Attendant	4139-E	0505-9909	Rental Clerk (a)
5349-C	1001-0505	Reagent Mixer (a)	4139-E	0505-9909	Rental Clerk, Car (sp)
4111-A	0501-0501	Real Estate Agent	4139-E	0505-9909	Rental Clerk, Film (sp)
4111-A	0501-0501	Real Estate Agent, Business Broker (sp)	4139-E	0505-9909	Rental Clerk, TV (sp)
4111-A	0501-0501	Real Estate Agent, Land Development (sp)	4139-E	0505-9909	Rental Clerk, Tools and Equipment (sp)
4111-A	0501-0501	Real Estate Agent, Mortgage Broker (sp)	4139-E	0505-9909	Rental Salesperson
4111-A	0501-0501	Real Estate Agent, Property Investment Consultant (sp)	6803-B	1101-1701	Repairer, Railway (a)
4111-A	0501-0501	Real Estate Agent, Property Management (sp)	3010-C	0215-0507	Reporter
7121-A	0407-0325	Receivables Storeman/woman (sp)	4121-A	0503-0501	Representative (Advertising) (a)
4032-D	0407-0307	Receiving Checker (a)	4131-C	0505-0305	Representative (Metal Merchant)
4032-D	0407-0307	Receiving Clerk	4131-E	0505-0309	Representative, Beauty Products (sp)
4051-A	0411-0101	Receptionist	4131-E	0505-0309	Representative, Household Products (sp)
4051-A	0411-0101	Receptionist Clerk (a)	4111-A	0501-0501	Representative, Real Estate (a)
4051-A	0411-0101	Receptionist, Advertising Agency (sp)	6061-B	0701-2303	Reprographic Equipment Repairer (sp)
4051-A	0411-0101	Receptionist, Beauty Salon (sp)	6203-B	0905-1111	Resaw Operator (Remote Control)
4051-A	0411-0101	Receptionist, Business (sp)	6203-E	0713-3703	Resaw Operator (a)
4051-A	0411-0101	Receptionist, Doctor's Surgery (sp)	6203-E	0713-3703	Resawyer
4051-A	0411-0101	Receptionist, Hotel (sp)	6203-B	0905-1111	Resawyer, Band-Saw (Remote Control) (sp)
3023-B	1203-0503	Recitalist (sp)	6203-B	0905-1111	Resawyer, Circular Saw (Remote Control) (sp)
7111-B	0907-0503	Reclaiming Operator (a)	6203-B	0905-1111	Resawyer, Gang Saw (Remote Control) (sp)
1031-C	0213-0305	Record Systems Analyst	1039-G	0213-9905	Research Assistant, Medical Records (sp)
4033-D	0407-0507	Recorder, Steel Mill (sp)	2000-B	0201-0103	Research Chemist
4042-Z	0409-0399	Recording Clerk (sp)	2323-Z	0217-0599	Research Fellow, Aboriginal Studies (sp)
1023	0103-0700	Recording Director (sp)	2322-Z	0203-1901	Research Fellow, Aeronautical Engineering (sp)
1031-C	0213-0305	Records Management Specialist (a)	2322-Z	0203-1903	Research Fellow, Agricultural Engineering (sp)
1031-C	0213-0305	Records Manager (a)	2321-Z	0201-0703	Research Fellow, Agricultural Sciences (sp)
6302-N	1005-2127	Recovery Plant Operator	2323-Z	0217-0599	Research Fellow, American Studies (sp)
4240-G	0605-0105	Recreation Camp Warden	2323-Z	0217-0503	Research Fellow, Anthropology (sp)
2119-F	0217-9909	Recreation Officer	2322-Z	0203-0101	Research Fellow, Architecture (sp)
2404-Z	0205-9999	Recreational Therapist (sp)	2323-Z	0217-0599	Research Fellow, Asian Studies (sp)
1032-E	0499-0505	Recruitment Officer (a)	2325-Z	0205-9901	Research Fellow, Audiology (sp)
5332-D	0909-0901	Reeled Tubing Operator	2323-Z	0217-0599	Research Fellow, Australian Studies (sp)
5334-B	0909-1305	Reeled Tubing Operator Trainee	2321-Z	0201-1100	Research Fellow, Biology (sp)
3031-B	1205-0303	Referee	2322-Z	0203-0301	Research Fellow, Building (sp)
6103-A	0703-0901	Refinery Electrician (sp)	2320-Z	0217-9905	Research Fellow, Business Studies (sp)
6811-B	0705-0303	Refractory Bricklayer	2322-Z	0203-0705	Research Fellow, Chemical Engineering (sp)
6105-A	0703-0701	Refrigeration Fitter (a)	2321-Z	0201-0103	Research Fellow, Chemistry (sp)
6105-A	0703-0701	Refrigeration Mechanic	2323-Z	0217-0599	Research Fellow, Chinese Studies (sp)
9005-C	0905-0505	Refrigeration Operator	2322-Z	0203-0907	Research Fellow, Civil Engineering (sp)
6211-D	0713-0901	Refrigerator Cabinet-Maker (sp)	2323-Z	0217-9905	Research Fellow, Classical Studies (sp)
8090-B	1101-0101	Refuse Collector (a)	2322-Z	0203-1103	Research Fellow, Communications Engineering (sp)
1020	0103-0100	Regional Manager (sp)	2322-Z	0213-0703	Research Fellow, Computer Science/Electronic Data Processing (sp)
2403-B	0713-3501	Registered Dental Mechanic (sp)	2323-Z	0211-0301	Research Fellow, Counselling (sp)
1020	0103-0100	Registrar (Educational Institution) (sp)	2323-Z	0217-0515	Research Fellow, Criminology (sp)
2129-Z	0211-0999	Registrar, Industrial Tribunal (sp)	2325-Z	0205-0503	Research Fellow, Dentistry (sp)
4019-A	0403-9901	Registration Clerk (sp)	2326-Z	0217-9905	Research Fellow, Design (sp)
4041-B	0409-0103	Registry Clerk (a)	2326-Z	0217-9905	Research Fellow, Dramatic Arts (sp)
2111-C	0211-0305	Rehabilitation Counsellor	2321-Z	0201-0300	Research Fellow, Earth Sciences (sp)
2414-B	0609-0399	Rehabilitation Nursing Aide (sp)	2323-Z	0217-0507	Research Fellow, Economic History (sp)
3032-B	1205-0503	Reinsman/woman (sp)	2323-Z	0217-0103	Research Fellow, Economics (sp)
2002-Z	0201-0501	Relativity Physicist (sp)	2324-Z	0217-0901	Research Fellow, Education (sp)
2046-H	0301-0503	Relays Draftsman/woman (sp)	2322-Z	0203-1107	Research Fellow, Electrical/Electronic Engineering (sp)
6503-A	1013-0101	Relief Stillman/woman (sp)	2323-Z	0217-9905	Research Fellow, English (sp)
2209-B	1201-0103	Religious Education Worker	2321-Z	0201-9901	Research Fellow, Environmental Studies (sp)
2209-B	1201-0103	Religious Education, Director of (sp)	2321-Z	0201-0109	Research Fellow, Food Sciences and Technology (sp)
2209-Z	*	Religious Observance Occupations nec	2321-Z	0201-0901	Research Fellow, Forestry (sp)
2303-A	0207-0701	Remedial English Teacher (sp)	2323-Z	0217-0505	Research Fellow, Geography (sp)
2303-A	0207-0701	Remedial Resource Teacher (a)	2322-Z	0201-0301	Research Fellow, Geological Engineering (sp)
2303-A	0207-0701	Remedial Teacher	2320-Z	0217-9905	Research Fellow, Health Administration (sp)
2303-Z	*	Remedial and Other Special Teachers nec	2323-Z	0217-0507	Research Fellow, History (sp)
4022-C	0405-0305	Remote Computer Terminal Operator	2323-Z	0217-0599	Research Fellow, History and Philosophy of
2412-Z	0309-0399	Renal Nurse (sp)			
2403-Z	0311-0599	Renal Technician (sp)			

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

\*: only coded in the other structure

Code A	Code B	TITLE	Code A	Code B	TITLE
		Science (sp)	2421-C	0205-0705	Retail Pharmacist
2321-Z	0201-0709	Research Fellow, Horticulture (sp)	4216-C	0601-1115	Retail Security Agent (a)
2323-Z	0217-0599	Research Fellow, Indian Studies (sp)	7119-Z	0907-0599	Retarder Operator (sp)
2322-Z	0203-1999	Research Fellow, Industrial and Production Engineering (sp)	6504-C	1013-1105	Retort Operator
2323-Z	0217-0599	Research Fellow, Japanese Studies (sp)	6811-B	0705-0303	Retort Setter (Bricklaying) (sp)
2326-Z	0217-9905	Research Fellow, Journalism (sp)	6702-A	0707-0301	Retoucher, Image Preparation (sp)
2323-Z	0211-0799	Research Fellow, Law (sp)	6702-B	0707-0303	Retoucher, Plate Preparation (sp)
2323-Z	0217-1101	Research Fellow, Librarianship (sp)	4032-D	0407-0307	Returned-Goods Receiving Clerk (sp)
2323-Z	0217-0599	Research Fellow, Linguistics (sp)	6222-G	1007-0915	Rewinder Operator
2329-Z	0217-9905	Research Fellow, Maritime Studies (sp)	2401-Z	0205-0399	Rheumatologist (sp)
2322-Z	0203-1907	Research Fellow, Materials Engineering (sp)	5001-B	0803-0103	Rhubarb Grower (sp)
2321-Z	0217-9905	Research Fellow, Materials Science (sp)	5000-J	0801-0101	Rice Grower (sp)
2322-Z	0217-0703	Research Fellow, Mathematics (sp)	6521-C	0711-0505	Rice Miller (sp)
2322-Z	0203-1301	Research Fellow, Mechanical Engineering (sp)	6520-B	0105-1107	Rice Milling Supervisor (sp)
2326-Z	0217-9905	Research Fellow, Media Studies/Communication (sp)	5330-A	0105-1309	Rig Superintendent (a)
2323-Z	0217-0599	Research Fellow, Mediaeval Studies (sp)	7103-A	0715-2901	Rigger
2325-Z	0201-1399	Research Fellow, Medical Sciences (sp)	6890-A	0715-1101	Rigger, Construction (a)
2323-Z	0217-0599	Research Fellow, Middle Eastern Studies (sp)	7103-A	0715-2901	Rigger, Shipyard (sp)
2322-Z	0203-1501	Research Fellow, Mining Engineering (sp)	6082-A	0909-0319	Ring Furnace Operator (sp)
2323-Z	0217-9905	Research Fellow, Modern European Studies (sp)	6063-A	0713-1303	Ring Maker (sp)
2323-Z	0217-9905	Research Fellow, Modern Languages (sp)	5102-B	1101-3503	Ring Net Fisherman/woman (sp)
2323-Z	0217-0599	Research Fellow, Museum Studies (sp)	6604-E	1011-0105	Ring Spinner (sp)
2326-Z	0215-1100	Research Fellow, Music (sp)	6203-E	0713-3703	Ripsaw Operator (sp)
2325-Z	0205-9903	Research Fellow, Nutrition and Dietetics (sp)	5302-D	0909-0713	Rise Miner (sp)
2325-Z	0205-0901	Research Fellow, Occupational Therapy (sp)	6191-A	1003-0713	Rivet Machine Operator (sp)
2325-Z	0205-1101	Research Fellow, Optometry (sp)	2046-F	0301-0501	Road Design Draftsman/woman (sp)
2323-Z	0217-0599	Research Fellow, Pacific Studies (sp)	2041-B	0203-0903	Road Design Engineer (sp)
2325-Z	0205-0799	Research Fellow, Pharmacy (sp)	7030-E	0901-0505	Road Freight Driver (sp)
2323-Z	0217-9905	Research Fellow, Philosophy (sp)	6802-Z	0903-0799	Road Linemarkers (sp)
2321-Z	0201-0501	Research Fellow, Physics (sp)	8000-D	1101-1501	Road Maintenance Worker (sp)
2325-Z	0205-1301	Research Fellow, Physiotherapy (sp)	6802-B	0903-0703	Road Roller Operator
2323-Z	0217-0513	Research Fellow, Political Science (sp)	7030-E	0901-0505	Road Train Driver (sp)
2323-Z	0217-0300	Research Fellow, Psychology (sp)	7039-Z	*	Road Transport Operating Occupations nec
2329-Z	0217-9905	Research Fellow, Religious Studies (sp)	5344-A	0909-0301	Roaster Operator
2323-Z	0217-0599	Research Fellow, Revolutionary Studies (sp)	5344-Z	*	Roasting Occupations (Mineral Ores) nec
2323-Z	0211-0199	Research Fellow, Social/Welfare Work (sp)	5302-D	0909-0713	Rock Drill Operator (a)
2323-Z	0217-0511	Research Fellow, Sociology (sp)	5001-B	0803-0103	Rockmelon Grower (sp)
2323-Z	0217-0599	Research Fellow, Spanish and Latin American Studies (sp)	6082-A	0909-0319	Rodding Press Operator (sp)
2325-Z	0205-1501	Research Fellow, Speech Therapy (sp)	6322-B	1005-0703	Roll Builder
2322-Z	0217-0709	Research Fellow, Statistics (sp)	6022-A	0701-0701	Roll Grinder (sp)
2329-Z	0217-9905	Research Fellow, Strategic Studies (sp)	6012-A	1003-0103	Roll Hand (a)
2322-Z	0203-0503	Research Fellow, Surveying (sp)	6011-B	1003-0101	Roller (a)
2323-Z	0217-0501	Research Fellow, Urban and Regional Planning (sp)	6802-B	0903-0703	Roller Driver (a)
2321-Z	0205-2101	Research Fellow, Veterinary Science (sp)	6322-C	1005-0705	Roller Grinder Operator
2001-A	0201-0301	Research Geologist (sp)	6011-B	1003-0101	Roller, Billet Mill (sp)
2020-B	0217-0703	Research Mathematician	6011-B	1003-0101	Roller, Bloom Mill (sp)
2001-C	0201-0305	Research Meteorologist (sp)	6011-B	1003-0101	Roller, Cold Mill (sp)
1039-B	0217-0103	Research Officer	6011-B	1003-0101	Roller, Finishing Mill (sp)
1039-B	0213-0101	Research Officer, Economic (sp)	6011-B	1003-0101	Roller, Hot Mill (sp)
1039-B	0217-9905	Research Officer, Financial (sp)	6011-B	1003-0101	Roller, Roughing Mill (sp)
2129-Z	0217-9905	Research Officer, High Court of Australia (sp)	6011-B	1003-0101	Roller, Slab Mill (sp)
1039-B	0217-0707	Research Officer, Market (sp)	6011-A	0905-1117	Rolling Attendant, Iron and Steel
1039-B	0217-0707	Research Officer, Statistical (sp)	6049-A	1003-0709	Rolling Machine Operator (sp)
2002-Z	0201-0501	Research Physicist (sp)	6012-A	1003-0103	Rolling Mill Assistant
4139-I	0505-9917	Reservation Clerk (sp)	6011-B	1003-0101	Rolling Mill Operator (Ferrous; Non-Ferrous Metals)
9003-A	0905-0101	Reservoir Keeper (a)	5319-A	1101-2303	Roof Bolter (sp)
2400-Z	0205-0101	Resident Medical Practitioner (sp)	6812-C	0705-0105	Roof Carpenter and Framer
6302-I	1005-2117	Resin Filterer (sp)	6817-A	0705-1101	Roof Fixer (sp)
4240-B	0105-0913	Resort Manager (a)	6816-A	0705-0901	Roof Plumber (sp)
2303-A	0207-0701	Resource Teacher (a)	6817-A	0705-1101	Roof Ridger (sp)
4230-C	0105-0901	Restaurant Manager (a)	6817-A	0705-1101	Roof Shingler (sp)
6511-A	0711-0301	Retail Butcher	6817-A	0705-1101	Roof Slater and Tiler
2421-C	0205-0705	Retail Chemist (a)	6891-A	1101-1101	Roof Slater and Tilers' Assistant (sp)
			6817-A	0705-1101	Roof Tiler (a)
			6817-A	0705-1101	Roof Tiling Contractor (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
6817-A	0705-1101	Roof Tiling Sub-contractor (sp)	5335-B	0909-1103	Roughneck
6817-A	0705-1101	Roofer (a)	3010-C	0215-0507	Roundsman/woman (sp)
6812-C	0705-0105	Roofing Carpenter (a)	5014-C	1101-3105	Rouseabout (a)
6816-A	0705-0901	Roofing Plumber (sp)	5335-A	1101-2300	Roustabout (Fluids Drilling)
6606-E	1011-0523	Rope Coiler (sp)	6322-Z	1005-0799	Rubber Extruder Operator (sp)
6606-E	1011-0523	Rope Machine Operator (sp)	6301-A	0303-0113	Rubber Laboratory Technician (sp)
6606-E	1011-0523	Rope Making Machine Operator	6322-Z	1005-0799	Rubber Millworker (sp)
4032-Z	0407-0309	Roster Clerk (sp)	6322-Z	1005-0799	Rubber Products Occupations (Except Tyres) nec
4032-Z	0407-0309	Roster Clerk, Train (sp)	6321-Z	1007-0599	Rubber Reclaimer (sp)
4032-Z	0407-0309	Roster Clerk, Tram (sp)	6322-Z	1005-0799	Rubber Stripping-Lathe Operator (sp)
5321-A	0909-0717	Rotary Drill Operator	6322-Z	1005-0799	Rubber Table Hand (sp)
5324-A	0909-1301	Rotary Driller's Offsider	2003-A	0201-9903	Rubber Technologist (sp)
5029-B	0903-0903	Rotary Hoe Operator (sp)	6817-B	0705-1301	Rubber Tile Floor Layer (sp)
6312-G	1005-0113	Rotational Moulding Machine Operator	6322-Z	1005-0799	Rubber Trimmer (sp)
6311-F	0701-0911	Rotational Moulding Machine Setter	8090-B	1101-0101	Rubbish Collector (a)
7101-A	0907-0101	Rough-Terrain Crane Driver (sp)	6621-B	0713-2309	Run-on Binder (sp)
5343-J	1001-0319	Rougher Mill Operator (sp)	5000-J	0801-0101	Rye Grower (sp)

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7122-E	1017-0119	Sack/Bag Filler	4122-L	0503-0723	Sales Representative (Pharmaceuticals/Toiletries)
6615-A	0713-2101	Saddle Maker (sp)	4122-M	0503-0725	Sales Representative (Photographic Equipment/Supplies)
6062-A	0701-2307	Safemaker (sp)	4121-D	0503-0507	Sales Representative (Printing)
2043-E	0203-1309	Safety Engineer (sp)	4122-N	0503-0727	Sales Representative (Textiles/Clothing/Footwear)
4222-A	0601-0903	Safety Inspector	4122-O	0503-0729	Sales Representative (Toys/Sporting Goods)
4222-D	0601-0923	Safety Officer	4120-E	0503-0305	Sales Representative, Agriculture Equipment (sp)
5000-J	0801-0101	Safflower Grower (sp)	4120-D	0503-0303	Sales Representative, Aircraft (sp)
6615-C	0713-2105	Sailmaker	4121-Z	0503-0599	Sales Representative, Armoured Car Service (sp)
7013-A	1101-3501	Sailor (a)	4122-E	0503-0709	Sales Representative, Bedroom Furniture (sp)
1022	0103-0500	Sales Administration Manager (sp)	4122-N	0503-0727	Sales Representative, Canvas Goods (sp)
4130-A	0505-0101	Sales Assistant, China Department (sp)	4122-H	0503-0715	Sales Representative, Clocks (sp)
4130-A	0505-0101	Sales Assistant, Hardware (sp)	4120-C	0503-0301	Sales Representative, Communications Equipment (sp)
4216-Z	0601-0799	Sales Checker (sp)	4121-Z	0503-0599	Sales Representative, Communications Service (sp)
4042-D	0409-0307	Sales Clerk	4121-B	0503-0503	Sales Representative, Debt Collection Agency (sp)
1022	0103-0500	Sales Director (sp)	4120-F	0503-0105	Sales Representative, Dental Equipment (sp)
4100-C	0105-0507	Sales Manager (Real Estate Sales) (a)	4120-B	0503-0103	Sales Representative, EDP Hardware (sp)
1022	0103-0500	Sales Manager (sp)	4121-Z	0503-0599	Sales Representative, Education Course (sp)
1022	0103-0500	Sales Promotion Manager (sp)	4122-K	0503-0721	Sales Representative, Electronic Organs (sp)
4121-A	0503-0501	Sales Representative (Advertising)	4120-D	0503-0303	Sales Representative, Food Machinery (sp)
4122-B	0503-0703	Sales Representative (Books/Paper Products)	4122-F	0503-0711	Sales Representative, Grocery Lines (sp)
4122-C	0503-0705	Sales Representative (Builders' Hardware/Timber)	4122-G	0503-0713	Sales Representative, Hardware (sp)
4121-B	0503-0503	Sales Representative (Business Services)	4122-G	0503-0713	Sales Representative, Hardware (Domestic) (sp)
4120-A	0503-0101	Sales Representative (Chemical Products)	4122-G	0503-0713	Sales Representative, Hi Fi Equipment (sp)
4120-B	0503-0103	Sales Representative (EDP)	4121-Z	0503-0599	Sales Representative, Hotel Services (sp)
4120-C	0503-0301	Sales Representative (Electronic Equipment, Except EDP)	4121-C	0503-0505	Sales Representative, International Removals (sp)
4122-D	0503-0707	Sales Representative (Farm Properties/Supplies)	4122-N	0503-0727	Sales Representative, Ladies', Gentlemen's Fashions (sp)
4122-E	0503-0709	Sales Representative (Floor Coverings/Furniture)	4121-Z	0503-0599	Sales Representative, Machine Vending Service (sp)
4122-F	0503-0711	Sales Representative (Food/Drink/Tobacco Products)	4120-F	0503-0105	Sales Representative, Medical Equipment (sp)
4121-C	0503-0505	Sales Representative (Freight Services)	4122-J	0503-0719	Sales Representative, New Cars (sp)
4122-G	0503-0713	Sales Representative (Household Goods/Domestic Hardware)	4122-J	0503-0719	Sales Representative, New and Used Caravans (sp)
4120-D	0503-0303	Sales Representative (Industrial Machinery and Equipment)	4120-E	0503-0305	Sales Representative, Office Machines (sp)
4122-H	0503-0715	Sales Representative (Jewellery/Watches)	4122-C	0503-0705	Sales Representative, Paint and Related Products (sp)
4120-E	0503-0305	Sales Representative (Machinery/Equipment)	4120-A	0503-0101	Sales Representative, Plastics/Chemicals (sp)
4120-F	0503-0105	Sales Representative (Medical and Dental Equipment and Supplies)	4120-F	0503-0105	Sales Representative, Prosthetic and Orthotic Appliances (sp)
4122-I	0503-0717	Sales Representative (Minerals/Metals)	4121-Z	0503-0599	Sales Representative, Security Service (sp)
4122-J	0503-0719	Sales Representative (Motor Vehicles/Cycles/Caravans/Boats/Petrol and Tyres)	4122-H	0503-0715	Sales Representative, Silverware (sp)
4122-K	0503-0721	Sales Representative (Musical Goods)			

Code A	Code B	TITLE	Code A	Code B	TITLE
4122-B	0503-0703	Sales Representative, Text Books (sp)	4130-F	0505-0111	Salesperson, Caravans (sp)
4120-D	0503-0303	Sales Representative, Textile Machinery (sp)	4131-E	0505-0309	Salesperson, Encyclopaedia (sp)
4122-F	0503-0711	Sales Representative, Tobacco Products (sp)	4130-N	0505-0127	Salesperson, Gemstones (sp)
4120-F	0503-0105	Sales Representative, Veterinary Equipment and Supplies (sp)	4130-E	0505-0109	Salesperson, Hi Fi Equipment (sp)
4120-D	0503-0303	Sales Representative, Welding Equipment (sp)	4130-B	0505-0103	Salesperson, Manchester Department (sp)
4120-C	0503-0301	Sales Representative, X-Ray Equipment (sp)	4130-B	0505-0103	Salesperson, Men and Boys' Wear (sp)
4121-Z	0503-0599	Sales Representatives and Agents (Services) nec	4130-F	0505-0111	Salesperson, New Cars (sp)
4122-Z	*	Sales Representatives and Agents (Other Products) nec	4130-H	0505-0115	Salesperson, Office Supplies (sp)
4120-Z	*	Sales Representatives and Agents (Specialist Technical Products) nec	4121-A	0503-0501	Salesperson, Radio and TV Time (sp)
7121-A	0407-0325	Sales Storeman/woman (sp)	4130-G	0505-0113	Salesperson, Sheetmusic (sp)
4100-Z	0505-0315	Sales Supervisor (Door-to-Door Sales) (sp)	4121-A	0503-0501	Salesperson, Signs and Displays (sp)
4100-Z	0505-0317	Sales Supervisor (Newspaper Sales) (sp)	4130-M	0505-0125	Salesperson, Ski Shop (sp)
4100-D	0105-0509	Sales Supervisor (Retail/Wholesale Establishment)	4130-H	0505-0115	Salesperson, Textbooks (sp)
1022	0103-0500	Sales Training Manager (sp)	4130-L	0505-0123	Salesperson, Tyres (sp)
1022-C	0103-0505	Sales and Marketing Manager (Lower Level)	4130-B	0505-0103	Salesperson, Women and Girls' Wear (sp)
1022-B	0103-0503	Sales and Marketing Manager (Middle Level)	4139-Z	*	Salespersons and Related Occupations nec
1022-A	0103-0501	Sales and Marketing Manager (Senior Level)	4130-Z	*	Salespersons/Sales Assistants (General Products) nec
4042-E	0409-0309	Sales-Slip Sorter (sp)	6302-I	1005-2117	Salt Filterer (sp)
4131-D	0505-0307	Salesman/woman (Cash Van Sales) (a)	5309-Z	1101-2303	Salvage Miner (sp)
4130-A	0505-0101	Salesman/woman (Domestic Hardware) (a)	7121-A	0407-0599	Salvage Storeman/woman (sp)
4131-E	0505-0309	Salesman/woman (Door-to-Door) (a)	2200-A	0211-1101	Salvation Army Officer (sp)
4130-B	0505-0103	Salesman/woman (Fabrics, Clothing/Footwear) (a)	6604-A	1011-0301	Sammer Operator (sp)
4130-C	0505-0105	Salesman/woman (Food/Drink Products) (a)	5335-C	1001-0707	Sample Catcher (a)
4130-D	0505-0107	Salesman/woman (Furniture/Floor Coverings) (a)	6612-F	0715-2309	Sample Hand, Apparel
4130-Z	*	Salesman/woman (General Products) (sp)	5335-C	1001-0707	Sample Washer
4130-E	0505-0109	Salesman/woman (Household Appliances/Radio/Television) (a)	6413-Z	0713-0399	Sandblaster (sp)
4130-F	0505-0111	Salesman/woman (Motor Vehicles/Boats/Caravans/Motor Cycles) (a)	6206-B	1007-0117	Sanding Machine Operator
4130-G	0505-0113	Salesman/woman (Musical Equipment/Goods) (a)	4251-Z	1101-2599	Sanitary Cleaner (sp)
4130-H	0505-0115	Salesman/woman (Newspaper/Books/Stationery) (a)	6332-Z	1005-1199	Sanitary Napkin Machine Tender (sp)
4130-I	0505-0117	Salesman/woman (Pharmaceutical Products/Toiletries) (a)	5333-B	0715-3901	Saturation Diver (sp)
4130-J	0505-0119	Salesman/woman (Photographic Equipment/Supplies) (a)	5333-A	0715-3903	Saturation Technician
4130-K	0505-0121	Salesman/woman (Plants/Seeds/Gardening Supplies) (a)	6513-A	1013-0501	Sausage Peeler (sp)
4139-F	0505-9911	Salesman/woman (Services, General) (a)	6062-B	0701-2309	Saw Doctor (sp)
4130-M	0505-0125	Salesman/woman (Sports Equipment/Toys) (a)	6062-B	0701-2309	Saw Maker (sp)
4130-L	0505-0123	Salesman/woman (Tyres/Vehicle Accessories) (a)	6062-B	0701-2309	Saw Maker and Repairer
4130-N	0505-0127	Salesman/woman (Watches/Jewellery) (a)	6062-B	0701-2309	Saw Sharpener (sp)
4131-D	0505-0307	Salesperson (Cash Van Sales)	6205-Z	1007-0599	Saws Operator, Hardboard Manufacture (sp)
4130-A	0505-0101	Salesperson (Domestic Hardware)	6205-Z	1007-0599	Saws Operator, Particleboard Manufacture (sp)
4131-E	0505-0309	Salesperson (Door-to-Door)	3023-C	1203-0505	Saxophonist (sp)
4130-B	0505-0103	Salesperson (Fabrics, Clothing/Footwear)	6890-B	0715-1103	Scaffold Erector (a)
4130-C	0505-0105	Salesperson (Food/Drink Products)	6890-B	0715-1103	Scaffolder
4130-D	0505-0107	Salesperson (Furniture/Floor Coverings)	4222-A	0601-0903	Scaffolding Inspector (sp)
4130-E	0505-0109	Salesperson (Household Appliances/Radio/Television)	6061-A	0701-2301	Scalemaker (sp)
4130-F	0505-0111	Salesperson (Motor Vehicles/Boats/Caravans/Motor Cycles)	6061-A	0701-2301	Scalemaker and Adjustor (sp)
4130-G	0505-0113	Salesperson (Musical Equipment/Goods)	5309-D	1101-2303	Scaler
4130-H	0505-0115	Salesperson (Newspaper/Books/Stationery)	3031-A	1205-0301	Scales Steward (sp)
4130-I	0505-0117	Salesperson (Pharmaceutical Products/Toiletries)	3028-F	0705-0113	Scene Painter (sp)
4130-J	0505-0119	Salesperson (Photographic Equipment/Supplies)	3028-F	0705-0113	Scenery Artist (sp)
4130-K	0505-0121	Salesperson (Plants/Seeds/Gardening Supplies)	4031-A	0407-0101	Schedule Clerk (sp)
4139-F	0505-9911	Salesperson (Services, General)	4022-C	0405-0305	Scheduler, Data Entry (a)
4130-M	0505-0125	Salesperson (Sports Equipment/Toys)	7030-A	0901-0101	School Bus Driver (sp)
4130-L	0505-0123	Salesperson (Tyres/Vehicle Accessories)	4217-Z	0601-1199	School Crossing Attendant (sp)
4130-N	0505-0127	Salesperson (Watches/Jewellery)	2330-B	0217-0905	School Inspector, Primary
4121-A	0503-0501	Salesperson, Art (sp)	2330-C	0217-0907	School Inspector, Secondary
4130-D	0505-0107	Salesperson, Furniture Department (sp)	2412-A	0309-0301	School Nurse (sp)
			2330-B	0217-0905	School Superintendent, Primary (a)
			2330-C	0217-0907	School Superintendent, Secondary (a)
			2330-Z	*	School Teacher Services Occupations nec
			2301-B	0207-0303	School of the Air Teacher, Primary (sp)
			2302-A	0207-0513	School of the Air Teacher, Secondary (sp)
			1028-C	0103-1705	Science Manager (Lower Level)
			1028-B	0103-1703	Science Manager (Middle Level)
			1028-A	0103-1701	Science Manager (Senior Level)
			2302-A	0207-0513	Science Master/Mistress (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
6411-B	0715-1503	Scientific Glass Apparatus Blower	6399-C	0905-1133	Sedimentation Basin Operator (sp)
3001-E	0215-0309	Scientific Illustrator (sp)	2001-A	0201-0301	Sedimentologist (sp)
6061-A	0701-2301	Scientific Instrument Maker (a)	5019-Z	0899-9999	Seed Cleaner (sp)
3000-B	0215-0103	Scientific Photographer (sp)	5000-J	0801-0101	Seed Farmer (sp)
2030-A	0213-0701	Scientific Programmer (sp)	5019-Z	0899-9999	Seed Pickler (sp)
6623-C	1011-0903	Scourer (Shoemaking) (sp)	5102-B	1101-3503	Seine and Gill Net Fisherman/woman
6801-D	0903-0107	Scraper Operator (Earthmoving)	5331-Z	0909-0799	Seismic Shot Hole Driller (sp)
5304-D	*	Scraper Operator, Underground Mine	2001-B	0201-0303	Seismologist (sp)
8020-A	1101-2901	Scrapman/woman, Metal Processing (sp)	4132-A	0505-0501	Self-Service Console Operator (Service Station) (a)
6016-C	0715-0101	Scratch Brusher (sp)	6202-C	0715-1705	Semi-automatic Wood Turning Lathe Operator
5342-D	1001-0107	Screen Attendant	2002-E	0201-0509	Semi-conductor Physicist (sp)
5342-D	1001-0107	Screen House Operator (a)	7030-E	0901-0505	Semi-trailer Driver (a)
6721-D	0707-1501	Screen Printer (a)	2209-C	0211-1105	Seminarian (a)
6729-A	0715-3305	Screen Printing Machine Operator (sp)	1000-A	0101-0101	Senator (sp)
6721-D	0707-1501	Screen Printing Stencil Preparer	2302-B	0207-0501	Senior Art Teacher (sp)
5349-E	1101-2305	Screen and Load-out Attendant (Pellet Plant)	4291-Z	0609-0199	Senior Assistant, Hostel (sp)
6221-C	0905-1123	Screening Operator (Paper Pulp Preparation)	6520-A	0105-1107	Senior Baker (sp)
5340-A	0105-1501	Screening Supervisor (sp)	2302-A	0207-0513	Senior Biology Teacher (sp)
6524-A	1013-0901	Screensman/woman (sp)	2302-A	0207-0513	Senior Business Education Teacher (sp)
3011-B	0215-0703	Screenwriter (sp)	2302-A	0207-0513	Senior Chemistry Teacher (sp)
4019-A	0403-9901	Scrip Clerk, Stockbroking	4295-C	0611-0903	Senior Conductor, Sleeping Car (sp)
3011-D	0215-0707	Script Editor	1027	0103-1500	Senior Construction Manager (sp)
3011-B	0215-0703	Script Writer	5341-B	0905-1103	Senior Control Room Operator (sp)
4239-A	1101-2925	Sculleryman/woman (sp)	1034-A	0501-0101	Senior Corporate Finance Officer (sp)
3000-D	0215-0107	Sculptor	1034-D	0501-9901	Senior Dealer, Money Market (sp)
6619-B	1011-0701	Seamer (sp)	4213-B	0601-0103	Senior Detective Constable (sp)
6612-A	0713-1701	Seamstress (sp)	5320-E	0105-1303	Senior Dragline Foreman/woman (sp)
6513-A	1013-0501	Seasoning Mixer (Smallgoods Processing) (sp)	5321-A	0909-0717	Senior Driller (sp)
6302-D	1005-2115	Seasoning Mixer (Chemicals) (sp)	2302-A	0207-0513	Senior Economics Teacher (sp)
6621-C	0713-2301	Seat Back Laster (sp)	2302-A	0207-0513	Senior English Teacher (sp)
6049-A	1003-0709	Second Class Machinist (Steel Construction) (sp)	1010-C	0103-1900	Senior Executive Officer (Public Service) (sp)
4231-C	0711-0901	Second Cook, Marine (sp)	4294-B	0611-0703	Senior Flight Attendant (sp)
6002-Z	0909-0399	Second Helper, Furnace (sp)	5320-C	0105-1113	Senior Foreman/woman, Blasting (sp)
7011-C	0307-0705	Second Mate (sp)	5340-A	0105-1501	Senior Foreman/woman, Crushing and Screening Occupations (sp)
7001-A	0307-0101	Second Officer, Aircraft (sp)	5320-B	0105-1309	Senior Foreman/woman, Production Drilling Occupations (sp)
4295-A	0611-0901	Second Steward (Marine) (sp)	2302-A	0207-0513	Senior French Teacher (sp)
6082-B	1003-1103	Second-Line Assistant (Metal) (sp)	2302-A	0207-0513	Senior Geography Teacher (sp)
6404-H	1009-0313	Secondary Sawyer, Stone (sp)	2302-A	0207-0513	Senior German Teacher (sp)
2302-A	0207-0513	Secondary School Teacher, Academic Subjects	2302-A	0207-0513	Senior History Teacher (sp)
2302-B	0207-0501	Secondary School Teacher, Arts and Crafts	2302-C	0207-0503	Senior Home Economics Teacher (sp)
2302-G	0207-0509	Secondary School Teacher, Careers	1027	0103-1500	Senior Industrial Engineering Manager (sp)
2302-A	0207-0513	Secondary School Teacher, Correspondence (sp)	4210-A	0105-0701	Senior Inspector (sp)
2302-C	0207-0503	Secondary School Teacher, Home Economics	4220-A	0105-0721	Senior Inspector, Orchards and Fruit (sp)
2302-H	0207-0511	Secondary School Teacher, Librarian	4050-B	0105-0329	Senior Mail Officer (a)
2302-D	0207-0507	Secondary School Teacher, Manual/Industrial Arts	2302-D	0207-0507	Senior Manual/Industrial Arts Teacher (sp)
2302-E	0207-0515	Secondary School Teacher, Music	2302-A	0207-0513	Senior Master/Mistress (sp)
2302-F	0207-0505	Secondary School Teacher, Physical Education	2302-A	0207-0513	Senior Mathematics Teacher (sp)
4001-C	0401-0105	Secretary (Clerical) (a)	2302-E	0207-0515	Senior Music Teacher (sp)
1010-A	0103-1900	Secretary (Federal Government Department) (sp)	5020-A	0105-1113	Senior Plant Propagator (a)
1027	0103-1500	Section Engineering Manager (sp)	4295-B	1101-0301	Senior Porter, Luggage (sp)
1010-C	0103-1900	Section Head (Public Service) (sp)	5322-A	0715-3103	Senior Powder Monkey (sp)
6803-B	1101-1701	Section Worker, Railway (sp)	4215-A	0601-0501	Senior Prison Officer (sp)
7009-B	0307-9903	Sectional Airworthiness Surveyor, Aircraft Certification (sp)	1027	0103-1500	Senior Project Engineering Manager (sp)
7009-B	0307-9903	Sectional Airworthiness Surveyor, Service Engineering (sp)	1028	0103-1700	Senior Research Manager (sp)
7009-B	0307-9903	Sectional Airworthiness Surveyor, Structures (sp)	2302-A	0207-0513	Senior Science Teacher (sp)
2100-G	0217-0113	Securities Analyst (sp)	4212-B	0105-0719	Senior Security Guard (a)
1034-C	0501-0105	Securities Dealer	4213-A	0601-0101	Senior Sergeant, Police (sp)
4012-B	0403-0303	Security Clerk (sp)	5322-A	0715-3101	Senior Shot-Firer (sp)
4217-D	0601-1105	Security Guard (a)	2030-D	0213-0707	Senior Software Programmer (sp)
4217-D	0601-1105	Security Officer	9010-C	0105-0105	Senior Sound Operator (sp)
4217-F	0601-1109	Security Officer, Airport Pre-Boarding	2030-D	0213-0707	Senior Systems Programmer (sp)
4212-B	0105-0719	Security Officer, Manager/Supervisor	9010-C	0105-0105	Senior Videotape Specialist (sp)
4217-C	0601-1113	Security Officer, Mobile	2040-C	0203-0705	Separation Processes Research Engineer (sp)
4216-C	0601-1115	Security Officer, Retail	6816-C	0705-0905	Septic Tank Installer (sp)

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

\*: only coded in the other structure

Code A	Code B	TITLE	Code A	Code B	TITLE
2420-B	0201-1303	Serology Medical Laboratory Scientist (sp)			Mine)
6023-B	0701-0705	Service Fitter (a)	5340-C	0105-1501	Shift Boss, Washing, Mixing, Separating and
6102-D	0703-0307	Service Mechanic, Electrical Appliances (a)			Shifting Occupations (Mineral Ores) (sp)
5332-F	0909-0903	Service Rig Operator	5320-D	0105-1303	Shift Foreman/woman, Open Cut Mine
4132-A	0505-0501	Service Station Attendant	9010-C	0105-0105	Shift Leader (Radio Switch) (sp)
4100-E	0105-0511	Service Station Manager (sp)	4211-C	0105-0713	Shift Officer, Fire Brigade (a)
4299-Z	*	Service and Related Occupations nec	4210-B	0105-0703	Shift Officer, Police Station (a)
5019-A	0899-9903	Serviceman/woman, Chicken Meat	4210-B	0105-0703	Shift Sergeant (sp)
6059-A	0715-4901	Serviceman/woman Electro-Mechanical	4211-C	0105-0713	Shift Superintendent, Fire Brigade (a)
		Equipment (sp)	4211-C	0105-0713	Shift Supervisor, Airport Fire Crew (a)
6119-Z	0703-1599	Serviceman/woman, Electronic Office	4211-C	0105-0713	Shift Supervisor, Fire Brigade
		Equipment (sp)	5320-D	0105-1303	Shift Supervisor, Open Cut Mine (a)
6059-A	0715-4901	Serviceman/woman, Mechanical Equipment	5300-B	0105-1311	Shift Supervisor, Underground (Non-
5300-Z	0105-1311	Services Foreman/woman (Underground			Mine) (a)
		Non-Coal Mining) (sp)	6410-A	0105-1113	Shift Supervisor/Foreman/woman, Glass (sp)
5340-Z	0105-1501	Services Foreman/woman, Mineral Ore	7111-A	0907-0501	Ship Loader Operator
		Treating (sp)	7019-Z	*	Ship Repair Manager (sp)
3001-B	0215-0303	Set Designer (sp)	7111-Z	0907-0599	Ship Unloader (sp)
5102-B	1101-3503	Set Net Fisherman/woman (sp)	7011-B	0307-0703	Ship's Captain (a)
6211-C	0705-0111	Setter Out	7019-A	0307-9907	Ship's Engineer Officer (a)
6815-B	0705-0703	Setter, Fibrous Plaster (a)	7014-Z	0905-1399	Ship's Fireman/woman (sp)
8020-G	1101-2913	Setter/Stacker, Clay Products (sp)	7011-B	0307-0703	Ship's Master (a)
4019-A	0403-9901	Settlements Clerk (sp)	7011-C	0307-0705	Ship's Mate (a)
6399-E	0905-1307	Sewage Disposal Worker (sp)	7014-C	0905-1311	Ship's Oilman/woman (a)
2046-J	0301-0507	Sewage Pumping Draftsman/woman (sp)	6814-C	0705-0505	Ship's Painter (sp)
2046-F	0301-0501	Sewage Reticulation Draftsman/woman (sp)	7011-A	0307-0701	Ship's Pilot (a)
2040-B	0203-0703	Sewage Treatment Engineer (sp)	7011-Z	*	Ship's Pilots and Deck Officers nec
2041-A	0203-0901	Sewerage Construction Engineer (sp)	4295	1101-0303	Ship's Porter (sp)
2041-B	0203-0903	Sewerage Design Engineer (sp)	7014-Z	0905-1399	Ship's Stoker (sp)
2041-C	0203-0905	Sewerage Maintenance Engineer (sp)	6055-A	0709-0901	Ship's Upholsterer (sp)
6399-D	0905-1135	Sewerage Plant Operator (a)	2046-Z	0301-0599	Shipbuilding Design Draftsman/woman (sp)
6059-A	0715-4901	Sewing Machine Mechanic (sp)	4032-C	0407-0305	Shipment Assembler (sp)
6619-B	1011-0701	Sewing Machine Operator (Textiles)	4032-C	0407-0305	Shipping Clerk
6610-D	0105-1517	Sewing Machine Supervisor (a)	4032-B	0407-0303	Shipping Clerk, Export (a)
5302-D	0909-0713	Shaft Sinker/Miner (sp)	4032-A	0407-0301	Shipping Clerk, Import (a)
5309-A	1101-2303	Shaft Timberman/woman (sp)	1024	0103-0900	Shipping Manager (sp)
5001-B	0803-0103	Shallot Grower (sp)	4032-Z	*	Shipping, Transportation and Receiving
5333-C	0715-3903	Shallow Water Diver (a)			Clerks nec
5011-A	0899-0701	Shearer	6103-A	0703-0901	Ships' Electrician (sp)
4233-Z	0603-0199	Shearers' Cook	6038-A	0713-2701	Shipwright, Metal
5010-B	0899-0503	Shearing Contractor (sp)	6212-E	0713-2701	Shipwright, Wood
5019-D	0899-9905	Shearing Shed Expert	6103-A	0703-0901	Shipyards Electrician (sp)
5014-C	1101-3105	Shearing Shed Hand	1020	0103-0100	Shire Clerk (sp)
6012-A	1003-0103	Shears Operator (sp)	7123-A	1101-0799	Shirt Packer (sp)
6013-C	1003-0311	Sheathing Extruder	4255-A	1101-2701	Shirt Presser (sp)
5014-C	1101-3105	Shed Hand (a)	6623-Z	1011-0999	Shoe Dyer (sp)
5000-D	0801-0305	Sheep Farmer	6623-D	1011-0905	Shoe Parts Trimmer (sp)
5000-D	0801-0305	Sheep Producer (a)	6621-E	0713-2303	Shoe Repairer
6514-A	1013-1301	Sheep Sticker (sp)	4299-Z	0611-9999	Shoe Shine (sp)
5000-A	0801-0317	Sheep/Cattle Farmer (sp)	6621-D	0713-2305	Shoemaker
6033-A	1003-0705	Sheet Metal Rolling Machine Operator (sp)	6623-Z	*	Shoemaking Production Process Workers nec
6032-B	0701-1503	Sheet Metal Worker, First Class	5335-D	1101-2300	Shooter Helper
6033-B	1003-0707	Sheet Metal Worker, Second Class (Installation)	5332-L	0715-3105	Shooter, Seismograph
6033-A	1003-0705	Sheet Metal Worker, Second Class	5109-D	1101-3707	Shooter/Trapper
		(Manufacturing)	4130-A	0505-0101	Shop Assistant (Domestic Hardware) (a)
6206-D	1007-0121	Sheet Thickness Tolerance Machine Operator	4130-B	0505-0103	Shop Assistant (Fabrics, Clothing/Footwear) (a)
7121-B	1101-0799	Shelf-Stockier (sp)	4130-C	0505-0105	Shop Assistant (Food/Drink Products) (a)
6342-A	1005-1501	Shell Assembler (sp)	4130-D	0505-0107	Shop Assistant (Furniture/Floor Coverings) (a)
6302-D	1005-2115	Shellac Mixer (sp)	4130-Z	*	Shop Assistant (General Products) (sp)
5101-H	1101-3501	Sheller, Abalone (a)	4130-E	0505-0109	Shop Assistant (Household
2129-H	0499-0901	Sheriff			Appliances/Radio/Television) (a)
2129-D	0499-0903	Sheriff Bailiff (a)	4130-F	0505-0111	Shop Assistant (Motor
2129-D	0499-0903	Sheriff Officer (a)			Vehicles/Boats/Caravans/Motor Cycles) (a)
5340-B	0105-1501	Shift Boss, Grinding Occupations (Mineral	4130-G	0505-0113	Shop Assistant (Musical Equipment/Goods) (a)
		Ores) (sp)	4130-H	0505-0115	Shop Assistant (Newspaper/Books/Stationery) (a)
5320-D	0105-1303	Shift Boss, Open Cut Mine (a)	4130-I	0505-0117	Shop Assistant (Pharmaceutical
5300-B	0105-1311	Shift Boss, Underground Mine (Except Coal			Products/Toiletries) (a)

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

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Code A	Code B	TITLE	Code A	Code B	TITLE
4130-J	0505-0119	Shop Assistant (Photographic Equipment/Supplies) (a)	6001-Z	0909-0399	Smelter (a)
4130-K	0505-0121	Shop Assistant (Plants/Seeds/Gardening Supplies) (a)	6513-A	1013-0501	Smokehouse Operator (sp)
4130-M	0505-0125	Shop Assistant (Sports Equipment/Toys) (a)	6524-A	1013-0901	Smutterman/woman (sp)
4130-L	0505-0123	Shop Assistant (Tyres/Vehicle Accessories) (a)	4239-B	1101-9911	Snack Bar Assistant (sp)
4130-N	0505-0127	Shop Assistant (Watches/Jewellery) (a)	5009-Z	0899-0199	Snake Farmer (sp)
6812-B	0705-0103	Shop Fitter (a)	7039-Z	0903-9999	Snowmobile Operator (sp)
6401-A	0705-1501	Shop Mason (a)	5332-E	0909-0907	Snubbing Unit Operator
4233-B	0603-0105	Short Order Cook (a)	6014-F	1003-0511	Soaking Pit Furnace Operator
5322-A	0715-3103	Shot-Firer (Open Cut Mining)	4033-D	0407-0507	Soaking-Pit Recorder (sp)
5303-A	0715-3101	Shot Firer (Underground Mining)	6399-B	1005-1101	Soap Maker
5323-C	0903-0101	Shovel Driver (a)	2110-B	0211-0103	Social Case Worker
5324-B	0903-1101	Shovel Greaser	2110-C	0211-0105	Social Planner/Administrator
5324-B	0903-1101	Shovel Oiler (a)	2109-Z	*	Social Scientists nec
5323-C	0903-0101	Shovel Operator	2119-Z	*	Social Welfare Occupations nec
6891-A	1101-1101	Shovelman/woman (sp)	2119-D	0311-0107	Social Worker Associate (a)
3009-Z	0311-9999	Show Card Artist (sp)	2110-Z	*	Social Workers nec
6892-C	1101-1107	Shower Screen Installer (sp)	2109-E	0217-0511	Sociologist
7029-C	0903-9903	Shunter, Railway	6623-Z	1011-0999	Socker (sp)
7021-A	0901-0701	Shunting Engine Driver (sp)	6503-E	1013-0109	Soft Drink Maker (a)
5311-B	0903-0131	Shuttle Car Driver, Underground Coal Mine	6503-E	1013-0109	Soft Drink Mixer
6514-A	1013-1301	Sider (sp)	6500-B	0105-1513	Soft Drinks Making Supervisor (sp)
7029-B	0905-1131	Signalman/woman, Railway	4120-B	0503-0103	Software Consultant (sp)
6814-D	0705-0507	Signcraftsman/woman (a)	2030-D	0213-0707	Software Development Programmer (sp)
6814-D	0705-0507	Signwriter	2030-D	0213-0707	Software Programmer (a)
6891-A	1101-1101	Signwriters' Assistant (sp)	2030-D	0213-0707	Software Supervisor (sp)
5001-B	0803-0103	Silver Beet Grower (sp)	5211-B	1101-3307	Softwood Faller
6063-E	0713-1309	Silver Plater (Jewellery) (sp)	5211-B	1101-3307	Softwood Feller (a)
6016-A	1003-0701	Silver Plater (Metal Finishing/Production Plating) (sp)	2012-I	0201-1117	Soil Bacteriologist (sp)
6015-B	0701-0305	Silver Sprayer (sp)	2010-F	0201-0711	Soil Biologist (sp)
6063-D	0713-1307	Silversmith (sp)	2010-F	0201-0711	Soil Chemist (sp)
6063-E	0713-1309	Silverware Polisher (sp)	2010-F	0201-0711	Soil Conservationist (sp)
4299-A	0611-9909	Simultaneous Interpreter (sp)	2010-F	0201-0711	Soil Microbiologist (sp)
7001-F	0209-0713	Simulator Instructor/Instructress, Aircraft (sp)	2010-F	0201-0711	Soil Physicist (sp)
6619-B	1011-0701	Single-Needle Machine Operator (sp)	2015-C	0303-0305	Soil Science Technician (sp)
6521-B	0711-0503	Singlehand Baker (sp)	2010-F	0201-0711	Soil Scientist
6521-A	0711-0501	Singlehand Pastrycook (sp)	2012-G	0201-1113	Soil Zoologist (sp)
5344-A	0909-0301	Sinter Plant Operator (sp)	2010-D	0201-0707	Soil and Crops Specialist (sp)
6810-A	0105-1103	Site Supervisor, Construction (a)	2046-A	0301-0501	Soils Testing Officer (sp)
5212-B	0903-0503	Skidder Operator	6036-D	1003-0909	Solderer
6501-A	0711-0101	Skilled Confectioner	6036-D	1003-0909	Solderer and Dipper (a)
6533-B	1013-0303	Skim/Whole Milk Dryer Operator (sp)	2121-D	0211-0707	Solicitor
5390-C	0907-0311	Skipman/woman	6815-A	0705-0701	Solid Plastering Contractor (sp)
5100-Z	0311-9903	Skipper, Pearl Vessel (sp)	2002-E	0201-0509	Solid-State Physicist
6623-B	1011-0907	Skiver (sp)	5343-D	1001-0307	Solution Operator (a)
4033-D	0407-0507	Slabbing-Mill Recorder (sp)	5343-D	1001-0307	Solutionist
6001-B	0909-0309	Slagger (sp)	6302-F	1005-2121	Solutions Plant Operator
6605-A	1011-0501	Slasher (Textiles) (a)	5343-Z	1001-0599	Solvent Extraction Operator (sp)
6817-A	0705-1101	Slater, Roof (a)	3024-A	0215-1101	Songwriter (sp)
6511-D	0711-0307	Slaughterman/woman	3023-B	1203-0503	Soprano (sp)
6511-D	0711-0307	Slaughterman/woman (Hallal) (sp)	4042-E	0409-0309	Sorter (Clerical)
6511-D	0711-0307	Slaughterman/woman (Kosher) (sp)	4259-B	1101-2703	Sorter (Laundry) (sp)
6803-B	1101-1701	Sleeper Layer (sp)	4022-B	0405-0303	Sorting Machine Operator (sp)
6619-B	1011-0701	Sleeve Maker (sp)	4022-Z	0405-0399	Sorting Machine Tender (sp)
6514-D	1011-0503	Slicer (a)	9013-Z	0311-0999	Sound Editor (sp)
6302-I	1005-2117	Sludge Filterer (sp)	3028-D	0715-3703	Sound Effects Person (sp)
5324-D	0909-1105	Slurry and Anfo Mobile Equipment Operator (sp)	9013-D	0311-0909	Sound Mixer
6714-B	0715-3303	Small Offset Lithographic Printing Machinist	9013-E	0311-0911	Sound Recording Equipment Operator
6513-A	1013-0501	Smallgoods Cooker Operator (sp)	6504-A	1013-1199	Sound Recordist (a)
6511-C	0711-0305	Smallgoods Maker	4230-B	0105-1107	Soup Mix Operator (sp)
6513-A	1013-0501	Smallgoods Process Worker (a)	5000-J	0801-0101	Sous-Chef
6513-A	1013-0501	Smallgoods Processing Equipment Operator	6504-B	1013-1103	Soybean Grower (sp)
6513-A	1013-0501	Smallgoods Worker (a)	7121-A	0407-0325	Spaghetti Maker (sp)
6001-Z	0909-0399	Smelt Hand (Gold) (sp)	1000-A	0101-0101	Spare Parts Storeman/woman (sp)
6001-Z	0909-0399	Smelt Hand (a)	6812-A	0705-0101	Speaker (sp)
			3028-D	0715-3703	Special Class Carpenter and Joiner (sp)
					Special Effects Person

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

\* : only coded in the other structure

Code A	Code B	TITLE	Code A	Code B	TITLE
2120-C	0211-0505	Special Magistrate (a)	4014-B	0403-0703	Statistical Clerk
2401-Z	*	Specialist Medical Practitioners nec	4014-B	0403-0703	Statistical Clerk, Advertising (sp)
6890-Z	*	Specialist Non-Trade Construction Occupations nec	4014-B	0403-0703	Statistical Clerk, Production (sp)
6521-E	0715-1307	Specialty Baked Products Maker(sp)	2020-D	0217-0707	Statistician, Business (sp)
2004-C	0301-0105	Spectroscopic Technical Officer (sp)	2020-D	0217-0707	Statistician, Demographic (sp)
2404-E	0205-1501	Speech Pathologist	2020-D	0217-0707	Statistician, Economic (sp)
2404-E	0205-1501	Speech Therapist (a)	2020-D	0217-0707	Statistician, Financial (sp)
6604-E	1011-0105	Speed Frame Operator (sp)	2020-D	0217-0707	Statistician, Health (sp)
5001-B	0803-0103	Spinach Grower (sp)	2020-D	0217-0707	Statistician, Opinion Poll (sp)
2412-Z	0309-0399	Spinal Injuries Nurse (sp)	2020-D	0217-0707	Statistician, Scientific (sp)
6604-E	1011-0105	Spinning Machine Operator	2020-D	0217-0707	Statistician, Social Science (sp)
6503-Z	1013-0199	Spirit Blender (sp)	4014-B	0403-0703	Statistics Clerk (a)
3027-D	1203-1107	Sport Commentator	6524-I	1013-0915	Steam Conditioning, Rolling and Cutting Machine Attendant (sp)
3039-Z	*	Sport Occupations nec	7021-A	0901-0701	Steam Engine Driver (sp)
3032-Z	*	Sport Professionals nec	4255-A	*	Steam Tunnel Operator (sp)
4130-M	0505-0125	Sporting Goods Repairer (sp)	2046-F	0301-0501	Steel Detail Draftsman/woman (sp)
1020	0103-0100	Sports Centre Co-ordinator (sp)	6890-D	0715-1107	Steel Fixer
3010-A	0215-0501	Sports Editor (sp)	6890-A	0715-1101	Steel Worker, Construction (a)
3010-D	0215-0509	Sports Sub-editor (sp)	6811-A	0705-0301	Steeplejack (sp)
4252-A	0713-3301	Spotter, Dry-Cleaning (sp)	4001-C	0401-0105	Steno-Secretary (a)
6321-Z	1005-0599	Spray Booth Operator (sp)	4001-C	0401-0105	Stenographer
6406-C	1009-0321	Spray Gun Operator, Clay Processing (sp)	6721-C	0707-1301	Stereotyper (sp)
*	0709-1501	Spray Painter (sp)	6721-C	0707-1301	Stereotyper and/or Electrotypier
6054-A	0709-0501	Spray Painter (Vehicle) (a)	6331-B	1005-0903	Sterile Products Processor
6814-A	0705-0501	Spray Painter, Construction (sp)	7191-Z	1101-0999	Stevadore (sp)
6606-F	1011-0303	Sprayer, Leather and Suede	3031-A	1205-0301	Steward, Race
6023-C	0709-0999	Spring Fitter (sp)	3031-A	1205-0301	Steward-at-Start (sp)
6031-C	0701-1305	Springmaker (sp)	4235-D	0603-0309	Steward/Stewardess (a)
6049-A	1003-0709	Springmaking Machine Operator (sp)	6036-A	1003-0903	Stick Electrode Welder (a)
4293-C	0611-0505	Squash Court Attendant (sp)	6514-A	1013-1301	Sticker, Abattoir (sp)
5001-B	0803-0103	Squash Grower (sp)	6503-A	1013-0101	Stillman/woman (a)
5012-B	0899-0903	Stable Hand (a)	3000-B	0215-0103	Still's Photographer (sp)
7193-Z	0903-0399	Stacker Crane Operator (sp)	2120-C	0211-0505	Stipendiary Magistrate
7111-C	0907-0505	Stacker Operator	3031-A	1205-0301	Stipendiary Steward, Racing (a)
8020-H	1101-2911	Stacker, Cement Products (sp)	4033-A	0407-0501	Stock Clerk, Machine Shop (sp)
8020-C	1101-2903	Stacker, Green/Dry Board (sp)	4033-A	0407-0599	Stock Clerk, Pharmaceuticals (sp)
1025	0103-1100	Staff Development Manager (sp)	4033-Z	0407-0599	Stock Clerks and Related Occupations nec
1032-C	0213-0505	Staff Development Officer	6203-H	1007-0109	Stock Cutter (Timber Yard) (sp)
1032-B	0213-0503	Staff Development and Training Officer (a)	4033-Z	0407-0599	Stock Records Clerk (sp)
3020-F	0215-0911	Stage Manager (sp)	7030-E	0901-0505	Stock Transport Driver (sp)
3028-Z	0715-3799	Stagehand (sp)	4122-D	0503-0707	Stock and Station Agent (a)
3028-Z	0715-3799	Staging Assistant (sp)	1034-C	0501-0105	Stockbroker (a)
6413-Z	0713-0399	Stained Leadlighter (sp)	6521-D	0711-0507	Stockfeed Miller
6812-B	0705-0103	Stair Case Carpenter (sp)	6524-B	1013-0903	Stockfeed Milling Machine Operator
6604-A	1011-0301	Staker Operator (sp)	6520-B	0105-1107	Stockfeed Milling Supervisor (sp)
4099-Z	0499-9999	Stamp Classifier (sp)	6524-B	1013-0903	Stockfeed Mixer (sp)
6621-C	0713-2301	Staple Side Laster (sp)	6524-B	1013-0903	Stockfeed Panel Operator (sp)
6521-C	0711-0505	Starch Miller (sp)	6524-B	1013-0903	Stockfeed Press Operator (sp)
6520-B	0105-1107	Starch Supervisor (sp)	6524-B	1013-0903	Stockfeed Vitamin Blender (sp)
6531-B	0711-0703	Starter Controller, Cheesemaking (sp)	5014-A	1101-3101	Stockman/woman (sp)
3031-A	1205-0301	Starter, Harness/Horse Racing (sp)	6404-H	1009-0313	Stone Fixer (sp)
1021	0103-0300	State Credit Manager (sp)	6404-H	1009-0313	Stone Polisher (sp)
2414-B	0609-0399	State Enrolled Nurse	6404-H	1009-0313	Stone Sawyer (sp)
1021	0103-0300	State Financial Manager (sp)	6401-A	0705-1501	Stonemason
1009-Z	0101-0301	State Governor (sp)	5301-A	0715-3107	Stope Machine Miner (a)
1020	0103-0100	State Manager (sp)	5301-A	0715-3107	Stope Miner
1000-A	0101-0101	State Minister (sp)	5309-A	1101-2303	Stope Timberman/woman (sp)
1022	0103-0500	State Sales Manager (sp)	5309-A	1101-2303	Stope Timberman/woman (sp)
4299-Z	0611-9999	Station Assistant (Railway) (sp)	9003-A	0905-0101	Storage Supervisor (Water Supply)
5014-A	1101-3101	Station Hand, Sheep (sp)	5000-I	*	Store Breeder (a)
5000-D	0801-0305	Station Manager, Sheep (sp)	5000-B	0801-0301	Store Cattle Grazier (sp)
7020-A	0105-0333	Station Master/Mistress, Railway	7121-A	0407-0325	Storeman
7020-B	0105-0335	Station Officer, Railway	7121-A	0407-0325	Storeman/woman, Driver (sp)
9005-A	0905-0501	Stationary Engine Driver (a)	7121-A	0407-0325	Storeman/woman, Engineering (sp)
9005-Z	*	Stationary Engine Operating Occupations nec	7121-A	0407-0325	Storeman/woman, Packer (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
7121-A	0407-0325	Storeman/woman/Stacker Crane Operator (sp)	9005-A	0905-0501	Sugar Mill Platform Turbine Engine Driver (sp)
7121-B	*	Stores Assistant	9005-A	0905-0501	Sugar Mill Power House Operator (sp)
4033-A	0407-0501	Stores Clerk	6520-C	0105-1513	Sugar Mill Supervisor (sp)
6001-B	0909-0309	Stoveman (sp)	9005-A	0905-0501	Sugar Mill Water Tender (sp)
7191-B	1101-0503	Stower (sp)	6524-E	1013-0909	Sugar Mill Weighbridge Operator (sp)
7193-B	0903-0303	Straddle Carrier Operator	6524-E	1013-0909	Sugar Packaging Operator (sp)
6606-E	1011-0523	Strand Forming Machine Operator (sp)	6524-D	1013-0907	Sugar Pan Operator (a)
5012-B	0899-0903	Strapper (a)	6524-E	1013-0909	Sugar Processing Machine Operator
7122-C	1017-0111	Strapping Machine Attendant	6520-C	0105-1513	Sugar Refinery Supervisor (sp)
6406-C	1009-0321	Strapping Machine Operator/Dipper, Clay Processing (sp)	7122-E	1017-0119	Sugar Sacker (sp)
2001-A	0201-0301	Stratigrapher (sp)	7021-A	0901-0701	Sugar Train Driver (sp)
5001-B	0803-0103	Strawberry Grower (sp)	5000-J	0801-0101	Sunflower Grower (sp)
8030-B	1101-3103	Strawberry Picker (sp)	6222-E	1007-0911	Supercalender Operator
4221-E	0601-0919	Stream Control Officer	5020-C	0105-1113	Superintendent, Golf Course (sp)
6190-Z	0703-0101	Street Lighting Attendant (sp)	1023	0103-0700	Superintendent, Underground Mining (sp)
4251-Z	1101-2599	Street Sweeper (sp)	4210-C	0105-0705	Superintendent/Inspector, Forensic Science Branch (sp)
4131-F	0505-0311	Street Vendor	4210-C	0105-0705	Superintendent/Inspector, Fraud Squad (sp)
6082-B	1003-1103	Stretcher Operator (sp)	4210-C	0105-0705	Superintendent/Inspector, Police Air Wing (sp)
4297-B	0713-2903	Stringed Musical Instrument Maker/Repairer	4210-C	0105-0705	Superintendent/Inspector, Water Police (sp)
3022-Z	1203-0399	Stripper (sp)	4220-A	0105-0721	Superintending Inspector (a)
5320-E	0105-1303	Stripping Foreman/woman (a)	4220-A	0105-0721	Superintending Officer (a)
5320-E	0105-1303	Stripping Supervisor (a)	1028	0103-1700	Supervising Bacteriologist (sp)
6037-B	0701-1705	Structural Boilermaker (a)	1028	0103-1700	Supervising Chemist (sp)
2046-G	0301-0501	Structural Design Draftsman/woman (a)	1027	0103-1500	Supervising Engineer (sp)
2041-B	0203-0903	Structural Design Engineer (sp)	1028	0103-1700	Supervising Microbiologist (sp)
2046-G	*	Structural Engineering Draftsman/woman (a)	1028	0103-1700	Supervising Pharmacologist (sp)
2001-A	0201-0301	Structural Geologist (sp)	9010-C	0105-0105	Supervising Technician, Audio (sp)
6037-B	0701-1705	Structural Steel Tradesperson	9010-C	0105-0105	Supervising Technician, Outside Broadcast (sp)
4033-D	0407-0507	Structural-Mill Recorder (sp)	9010-C	0105-0105	Supervising Technician, Radio Operations (sp)
6890-A	0715-1101	Structural-Steel Erector	9010-C	0105-0105	Supervising Technician, TV Outside Broadcast Operations (sp)
5000-I	0801-0315	Stud Farmer (a)	9010-C	0105-0105	Supervising Technician, TV Production Operations (sp)
5012-B	0899-0903	Stud Groom (sp)	4100-Z	0505-0313	Supervisor (Cash Van Sales) (sp)
5014-A	1101-3101	Stud Hand, (sp)	4100-E	0105-0511	Supervisor Manager (Retail/Wholesale Store)
5000-I	0801-0315	Stud Manager (sp)	4090-Z	0105-0399	Supervisor, Advertising Clerks (sp)
5000-I	0801-0305	Stud Sheep Breeder (sp)	6100-E	0105-1105	Supervisor, Air-Conditioning Mechanics (sp)
2119-G	0217-9907	Student Activities Officer	6610-E	0105-1111	Supervisor, Alterations (sp)
2209-C	0211-1105	Student Minister	6100-D	0105-1105	Supervisor, Automotive Electricians
2413-A	0309-0501	Student Nurse	6520-A	0105-1107	Supervisor, Bakery (sp)
2413-A	0309-0501	Student of Nursing (a)	4010-B	0105-0307	Supervisor, Bank Tellers and Clerks
3002-E	0311-0709	Studio Assistant	4230-G	0105-0909	Supervisor, Bar Attendants
3028-Z	0715-3799	Studio Hand (sp)	6500-B	0105-1513	Supervisor, Beverage Processing Occupations
1023	0103-0700	Studio Manager (sp)	4010-A	0105-0305	Supervisor, Billing (sp)
3000-B	0215-0103	Studio Photographer (sp)	6510-A	0105-1107	Supervisor, Boning Line Occupations (sp)
6514-A	1013-1301	Stunner and Shackler, Abattoir/Knackery (sp)	6720-A	0105-1109	Supervisor, Bookbinding Operations (sp)
3022-Z	1203-0399	Stunt Actor (sp)	4010-A	0105-0305	Supervisor, Bookkeepers and Accounting Clerks
3010-D	0215-0509	Sub-Editor	4020-B	0105-0315	Supervisor, Bookkeeping Machine Operators (sp)
4111-A	0501-0501	Sub-agent, Real Estate (a)	6520-A	0105-1107	Supervisor, Breadmaking and Pastrycooking Occupations
6213-D	1007-0707	Sub-assembler (Furniture) (a)	4010-A	0105-0305	Supervisor, Budget (sp)
6814-A	0705-0501	Sub-contract Painter (sp)	6510-A	0105-1107	Supervisor, Butchering Occupations (sp)
2330-A	0217-0903	Subject Consultant (a)	6530-A	0105-1107	Supervisor, Butter Making Occupations (sp)
2330-A	0217-0903	Subject Consultant, Biological Sciences (sp)	6530-A	0105-1107	Supervisor, Cheese Making Occupations (sp)
2330-A	0217-0903	Subject Consultant, English (sp)	4090-A	0105-0331	Supervisor, Collection Clerks (sp)
2046-H	0301-0503	Substation Design Draftsman/woman (sp)	5020-Z	0105-1113	Supervisor, Commercial Flower Growing (sp)
6190-C	0703-2703	Substation Erector (sp)	6110-A	0105-1105	Supervisor, Communications Equipment Tradespersons
6524-D	1013-0907	Sugar Boiler	6110-Z	0105-1105	Supervisor, Control Equipment Tradespersons (sp)
6520-C	0105-1513	Sugar By-Products Supervisor (sp)	4040-B	0105-0325	Supervisor, Correspondence Clerks (a)
9005-A	0905-0501	Sugar Cane Crusher Operator (sp)	4040-B	0105-0325	Supervisor, Correspondence Clerks and Related Occupations
5019-C	0601-0907	Sugar Cane Field Inspector (a)	4010-A	0105-0305	Supervisor, Cost (sp)
5000-K	0801-0103	Sugar Cane Grower	6810-A	0105-1103	Supervisor, Cottage Construction (sp)
5013-A	0903-0901	Sugar Cane Harvester Operator (sp)	6510-A	0105-1107	Supervisor, Crustacean Processing
5013-A	0903-0901	Sugar Cane Haul-out Driver (sp)			
5019-C	0601-0907	Sugar Cane Inspector			
6524-E	1013-0909	Sugar Dryer Operator (sp)			
7021-A	0901-0701	Sugar Locomotive Driver (sp)			

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

\* : only coded in the other structure

Code A	Code B	TITLE	Code A	Code B	TITLE
		Occupations (sp)	6110-C	0105-1105	Supervisor, Radio Serviceman/woman (sp)
6610-E	0105-1111	Supervisor, Custom Tailoring Shop (sp)	9010-C	0105-0105	Supervisor, Radio and TV Broadcasting Equipment Operators
6530-A	0105-1107	Supervisor, Dairy Product Processing Occupations	9010-A	0105-0101	Supervisor, Radio and Telegraph Operators
6530-A	0105-1107	Supervisor, Egg Pulping Occupations (sp)	6110-C	0105-1105	Supervisor, Radio and Television Servicing Tradespersons
6100-B	0105-1105	Supervisor, Electrical Fitters	9010-A	0105-0101	Supervisor, Radiotelegraphers (sp)
6100-C	0105-1105	Supervisor, Electrical Mechanics	7110-A	*	Supervisor, Railway Transport (Freight) (sp)
4020-A	0105-0313	Supervisor, Electronic Data Processing Equipment Operators	6720-A	0105-1109	Supervisor, Reading Room (sp)
4040-A	0105-0323	Supervisor, File Clerks (a)	4010-Z	0105-0399	Supervisor, Real Estate Clerks (sp)
6610-D	0105-1517	Supervisor, Finishing Department (sp)	6100-E	0105-1105	Supervisor, Refrigeration Mechanics (sp)
6510-A	0105-1107	Supervisor, Fish Canning Occupations (sp)	6100-E	0105-1105	Supervisor, Refrigeration and Air-Conditioning Mechanics
6510-A	0105-1107	Supervisor, Fish Crumbing Occupations (sp)	4100-Z	0105-0599	Supervisor, Rental Service (sp)
6510-A	0105-1107	Supervisor, Fish Filleting Occupations (sp)	*	0105-1301	Supervisor, Road and Rail Transport Drivers (sp)
6540-A	0105-1513	Supervisor, Fruit and Vegetable Processing Occupations	4010-Z	0105-0399	Supervisor, Scrip Clerks (sp)
6610-E	0105-1111	Supervisor, Garment Repair (sp)	6610-D	0105-1517	Supervisor, Sewing Machine Operators
6500-A	0105-1513	Supervisor, General Food Processing Occupations	6510-A	0105-1107	Supervisor, Shellfish Processing Occupations (sp)
6410-A	0105-1113	Supervisor, Glass Mixing, Processing and Forming (sp)	4030-B	0105-0319	Supervisor, Shipping, Transportation and Receiving Clerks
6610-D	0105-1517	Supervisor, Glove Making (sp)	6610-D	0105-1517	Supervisor, Shirts (sp)
6520-B	0105-1107	Supervisor, Grain Milling Occupations	6510-A	0105-1107	Supervisor, Slaughtering, Meat Cutting and Curing Occupations
4100-D	0105-0509	Supervisor, Grocery Department (sp)	6510-A	0105-1107	Supervisor, Smallgoods Making Occupations (sp)
6510-A	0105-1107	Supervisor, Ham and Bacon Making Occupations (sp)	9010-D	0105-0109	Supervisor, Sound Recording (sp)
6530-A	0105-1107	Supervisor, Ice Cream Making Occupations (sp)	9010-D	0105-0109	Supervisor, Sound Recording and Reproduction Equipment Operators
4251-A	0105-1711	Supervisor, Industrial Cleaners (sp)	6530-A	0105-1107	Supervisor, Special Dairy Product Making Occupations (sp)
4216-B	0601-0703	Supervisor, Inquiry Agents (sp)	4010-D	0105-0311	Supervisor, Statistical Clerks
6610-A	0105-1521	Supervisor, Inspecting, Grading and Sampling Occupations, Textile and Related Goods	4000-A	0105-0301	Supervisor, Stenographers
4220-A	0105-0721	Supervisor, Inspectors and Regulating Officers	6610-D	0105-1517	Supervisor, Stitching Department (sp)
6060-A	0105-1101	Supervisor, Instrument Fitter (a)	4030-C	0105-0321	Supervisor, Stock Clerks
4010-C	0105-0309	Supervisor, Insurance Clerks	4030-C	0105-0321	Supervisor, Stores Clerks (a)
4030-C	0105-0321	Supervisor, Inventory Control (sp)	6520-C	0105-1513	Supervisor, Sugar Milling and Refining Occupations
4030-Z	0105-0399	Supervisor, Invoice Checkers (sp)	6610-E	0105-1111	Supervisor, Tailors and Dressmakers
6610-D	0105-1517	Supervisor, Jackets (sp)	6110-B	0105-1105	Supervisor, Telecommunication Line Tradespersons
4030-A	0105-0317	Supervisor, Job-Order Clerks (sp)	9010-A	0105-0101	Supervisor, Telegraphists (sp)
6510-A	0105-1107	Supervisor, Killing Floor Occupations (sp)	4050-A	0105-0327	Supervisor, Telephonists (a)
5020-Z	0105-1113	Supervisor, Landscaping (sp)	6110-C	0105-1105	Supervisor, Television Serviceman/woman (sp)
4040-A	0105-0323	Supervisor, Library Attendants (a)	4000-B	0105-0303	Supervisor, Typists
4040-A	0105-0323	Supervisor, Library and File Clerks	5300-B	0105-1311	Supervisor, Underground (Non-Coal Mine) (a)
6100-Z	0105-1105	Supervisor, Lift Mechanics (sp)	4251-F	0105-1709	Supervisor, Vehicle Cleaners (sp)
4030-C	0105-0321	Supervisor, Linen Room (sp)	4000-B	0105-0303	Supervisor, Word Processors (a)
6510-A	0105-1107	Supervisor, Meat By-Product Processing Occupations (sp)	6030-A	0105-1101	Supervisor/Foreman, Forging
4100-D	0105-0509	Supervisor, Meat Department (sp)	6050-A	0105-1101	Supervisor/Foreman/woman, Aircraft Fabricating, Assembling, Maintaining and Repairing Occupations
6530-A	0105-1107	Supervisor, Milk and Cream Processing Occupations (sp)	6050-B	0105-1101	Supervisor/Foreman/woman, Automobile Fabricating, Assembling, Maintaining and Repairing Occupations
5300-C	0105-1701	Supervisor, Mine Ventilation	6410-A	0105-1113	Supervisor/Foreman/woman, Batch House (sp)
9010-B	0105-0103	Supervisor, Motion Picture Projectionists	7110-A	0105-1307	Supervisor/Foreman/woman, Bulk Materials Handling Occupations
6510-A	0105-1107	Supervisor, Offal Line Occupations (sp)	6400-B	0105-1515	Supervisor/Foreman/woman, Burning (Head Burner) (sp)
4020-B	0105-0315	Supervisor, Office Business Machine Operators	6610-G	0105-1111	Supervisor/Foreman/woman, Canvas Repairer (sp)
5020-B	0105-1113	Supervisor, Parks and Gardens	6610-G	0105-1111	Supervisor/Foreman/woman, Case Maker (sp)
6610-B	0105-1111	Supervisor, Patternmaking, Marking and Cutting Occupations	6400-A	0105-1515	Supervisor/Foreman/woman, Cement Making (sp)
4010-A	0105-0305	Supervisor, Payroll (sp)	6400-A	0105-1515	Supervisor/Foreman/woman, Cement Production
6510-A	0105-1107	Supervisor, Pet Food Processing Occupations (sp)	6400-B	0105-1515	Supervisor/Foreman/woman, Clay Processing
5020-A	0105-1113	Supervisor, Plant Nursery	6410-A	0105-1113	Supervisor/Foreman/woman, Cold End (Glass)
4050-B	0105-0329	Supervisor, Postal	5340-C	0105-1501	Supervisor/Foreman/woman, Concentrator (a)
6510-A	0105-1107	Supervisor, Poultry Processing Occupations (sp)	6400-A	0105-1515	Supervisor/Foreman/woman, Concrete
6100-A	0105-1105	Supervisor, Powerline			
6720-A	*	Supervisor, Printing Occupations (Other)			
4100-D	0105-0509	Supervisor, Produce Department (sp)			
4030-A	0105-0317	Supervisor, Production and Scheduling Clerks			
4090-Z	0105-0399	Supervisor, Public Opinion Poll Interviewers (sp)			
6320-A	0105-1521	Supervisor, Quality Control (Rubber) (sp)			
6510-A	0105-1107	Supervisor, Rabbit Processing Occupations (sp)			

Code A	Code B	TITLE	Code A	Code B	TITLE
		Products (sp)	4090-Z	*	Supervisors, Other Clerical Occupations nec
6410-B	0105-1113	Supervisor/Foreman/woman, Contact Lenses (sp)	7020-Z	*	Supervisors, Railway Transport nec
6610-B	0105-1111	Supervisor/Foreman/woman, Cutting Department (sp)	4100-Z	*	Supervisors, Sales nec
6400-A	0105-1515	Supervisor/Foreman/woman, Fibre-Cement (sp)	4030-Z	*	Supervisors, Scheduling and Dispatching Occupations nec
6610-C	0105-1111	Supervisor/Foreman/woman, Finishing (Fur) (sp)	*	0105-1521	Supervisors, Testing and Inspecting (sp)
7110-C	0105-1309	Supervisor/Foreman/woman, Fluids Handling Occupations	7110-Z	*	Supervisors/Foremen/Women, Bulk Materials and Fluids Handling Occupations nec
7110-C	0105-1309	Supervisor/Foreman/woman, Fluids Loading/Unloading (sp)	6400-Z	*	Supervisors/Foremen/women, Clay and Stone Working Occupations nec
6400-B	0105-1515	Supervisor/Foreman/woman, Forming (Clay Processing) (sp)	6050-Z	*	Supervisors/Foremen/women, Metal Fabricating, Assembling, Maintaining and Repairing Occupations, nec
6410-A	0105-1113	Supervisor/Foreman/woman, Furnace (Glass Processing) (sp)	4033-B	0407-0503	Supply Clerk (a)
6610-C	0105-1111	Supervisor/Foreman/woman, Furriers	1024	0103-0900	Supply Controller (sp)
7110-D	0105-1309	Supervisor/Foreman/woman, Gas Pipeline	1024	0103-0900	Supply Director (sp)
6410-A	0105-1113	Supervisor/Foreman/woman, Glass Processing Occupations	1024	0103-0900	Supply Manager (sp)
6400-B	0105-1515	Supervisor/Foreman/woman, Grading, Sorting and Finishing (Clay Processing) (sp)	1024	0103-0900	Supply Superintendent (sp)
6610-G	0105-1111	Supervisor/Foreman/woman, Harness Maker (sp)	1024-C	0103-0905	Supply and Distribution Manager (Lower Level)
6410-A	0105-1113	Supervisor/Foreman/woman, Hot End (Glass) (sp)	1024-B	0103-0903	Supply and Distribution Manager (Middle Level)
6060-B	0105-1113	Supervisor/Foreman/woman, Jewellery and Silverware Occupations	1024-A	0103-0901	Supply and Distribution Manager (Senior Level)
6610-B	0105-1111	Supervisor/Foreman/woman, Lay-out, Marking and Cutting-out (sp)	8010-B	1101-2303	Supplyman/woman, Underground Mine (sp)
6410-B	0105-1113	Supervisor/Foreman/woman, Lens Glazers (sp)	2120-B	0211-0503	Supreme Court Judge (sp)
6410-B	0105-1113	Supervisor/Foreman/woman, Lens Surfacers (sp)	5349-D	1001-0323	Surface Hydraulic Fill Operator
6400-A	0105-1515	Supervisor/Foreman/woman, Lime Making (sp)	2002-E	0201-0509	Surface Physicist (sp)
6020-B	0105-1101	Supervisor/Foreman/woman, Machine Room	2005-D	0303-0107	Surface-Water Hydrological Technician (sp)
6030-D	0105-1101	Supervisor/Foreman/woman, Metal Fabricating and Structural Metalworking	2401-Z	0205-0399	Surgeon, General (sp)
6410-B	0105-1113	Supervisor/Foreman/woman, Optical Machining	6621-D	0713-2305	Surgical Shoemaker (sp)
7110-A	0105-1307	Supervisor/Foreman/woman, Port (sp)	5399-Z	1101-1901	Survey Assistant (sp)
6060-A	0105-1101	Supervisor/Foreman/woman, Precision and Other Instruments	2059-Z	0301-0707	Survey Detail Draftsman/woman (sp)
6080-A	0105-1503	Supervisor/Foreman/woman, Process Workers, Metal and Metal Products	8000-F	1101-1901	Survey Hand
5340-C	0105-1501	Supervisor/Foreman/woman, Processing Plant (a)	2020-D	0217-0707	Survey Statistician (sp)
6610-C	0105-1111	Supervisor/Foreman/woman, Production (Fur) (sp)	2053-E	0301-0707	Surveying Draftsman/woman (a)
6610-G	0105-1111	Supervisor/Foreman/woman, Saddle Maker (sp)	2053-F	0301-0709	Surveying Technical Officer (a)
6030-B	0105-1101	Supervisor/Foreman/woman, Sheet Metalworking	2059-Z	0499-9921	Surveying Tracer (sp)
6400-C	*	Supervisor/Foreman/woman, Stonemasons	2052-B	0203-0503	Surveyor
7110-C	0105-1309	Supervisor/Foreman/woman, Tank Farm (sp)	1028	0103-1700	Surveyor-General (sp)
6610-G	0105-1111	Supervisor/Foreman/woman, Tarpaulin Maker (sp)	8000-F	1101-1901	Surveyors' Chainman/woman (a)
6020-A	0105-1101	Supervisor/Foreman/woman, Tool Room	6332-A	1005-1105	Suture Maker
7110-A	0105-1307	Supervisor/Foreman/woman, Train Loading (sp)	5219-Z	1101-3399	Swamper (Logging) (sp)
7110-A	0105-1307	Supervisor/Foreman/woman, Unloading (sp)	8090-A	1101-5501	Swamper (a)
6610-G	0105-1111	Supervisor/Foreman/woman, Wallet Maker (sp)	5219-Z	1101-3399	Swampy (sp)
6030-C	0105-1101	Supervisor/Foreman/woman, Welding and Flame Cutting	5001-B	0803-0103	Swede Grower (sp)
6400-A	0105-1515	Supervisor/Shipper, Premix Concrete (sp)	5001-B	0803-0103	Sweet Corn Grower (sp)
5020-Z	*	Supervisors, Amenity Horticulture nec	5001-B	0803-0103	Sweet Potato Grower (sp)
4010-Z	*	Supervisors, Bookkeeping, Banking and Insurance Account Recording Occupations nec	4053-B	0411-0503	Switchboard Operator (a)
6100-Z	*	Supervisors, Electrical Trade and Related Occupations nec	9013-Z	0311-0999	Switcher (Audio-Visual Arts) (sp)
9010-Z	*	Supervisors, Electronic and Communications Equipment Operating Occupations nec	2042-C	0203-1105	Switchgear Design Engineer (sp)
6110-Z	*	Supervisors, Electronic Trade Occupations nec	2042-C	0203-1105	Switchgear Engineer (sp)
6520-Z	*	Supervisors, Field Crops Product Processing Occupations nec	9001-A	0409-0103	Switching Security Officer (sp)
			2013-A	0201-0901	Sylviculturist (sp)
			2001-C	0201-0305	Synoptic Meteorologist (sp)
			6302-G	1005-2125	Synthetic Textiles Still Operator (sp)
			6504-D	1013-1107	Syrup Blender (sp)
			6504-D	1013-1107	Syrup Maker
			9001-A	0407-0103	System Control Operator
			9000-A	0105-1305	System Control Supervisor
			2030-C	0213-0705	Systems Analyst
			2030-C	0213-0705	Systems Development Officer (sp)
			2042-D	0203-1107	Systems Engineer (sp)
			1026	0103-1300	Systems Manager (sp)
			1026	0103-1300	Systems Operations Manager (sp)
			2030-D	0213-0707	Systems Programmer
			2040-C	0203-0705	Systems Research Engineer (sp)

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Code A	Code B	TITLE	Code A	Code B	TITLE
2311-Z	*	TAFE Teachers (Trade) nec	2311-Z	0209-0399	Teacher, Hairdressing (TAFE) (sp)
6035-A	1003-0901	TIG Welder (sp)	3003-Z	0715-1999	Teacher, Handicrafts (Private) (sp)
6411-A	0715-1501	TV Tube Blower (sp)	3025-B	0209-0705	Teacher, Historical Dancing (sp)
5343-J	1001-0319	Table Attendant (sp)	2310-F	0209-0511	Teacher, Horticultural and Agricultural Studies (TAFE)
8020-L	1101-2923	Table Hand, Printing (sp)	2310-G	0209-0513	Teacher, Industrial Services (TAFE)
5343-I	1001-0317	Table Operator (Ore Treating)	3023-F	1203-0511	Teacher, Instrumental Music (Private)
5343-I	1001-0317	Tableman/woman (a)	2311-A	0209-0301	Teacher, Metal Trades (TAFE)
6331-G	1005-0913	Tablet Coating Machine Operator	3025-B	0209-0705	Teacher, Modern Ballet (sp)
6331-F	1005-0911	Tablet Making Machine Operator	2310-H	0209-0515	Teacher, Music (TAFE)
4022-D	0405-0307	Tabulating Machine Operator (sp)	3025-B	0209-0705	Teacher, National/Ethnic Dancing (sp)
5311-C	0907-0701	Tail End Man/Woman (a)	3000-E	0209-0701	Teacher, Painting (Private) (sp)
8010-C	1101-2301	Tailings Dam Labourer (sp)	2310-I	0209-0517	Teacher, Paramedical Studies (TAFE)
8010-C	1101-2301	Tailings Labourer, Mineral Ore Treating (sp)	2310-J	0209-0519	Teacher, Personal Services (TAFE)
6611-A	0713-1501	Tailor, Made-to-Measure Garments	3023-F	1203-0511	Teacher, Piano (Private) (sp)
6611-B	0713-1503	Tailor, Ready-to-Wear Garments	3000-E	0209-0701	Teacher, Print Making (Private) (sp)
4033-D	0407-0507	Tally Clerk	2311-D	0209-0307	Teacher, Printing Trades (TAFE)
4033-D	0407-0507	Tally Clerk, Steel Mill (sp)	3000-E	0209-0701	Teacher, Sculpturing (Private) (sp)
4033-D	0407-0507	Tally Clerk, Timber (sp)	2311-Z	0209-0399	Teacher, Tailoring (TAFE) (sp)
7112-C	*	Tank Farm Operator (oil) (a)	3025-B	0209-0705	Teacher, Tap Dancing (sp)
7112-A	0909-0101	Tank Farm Operator Fluid (sp)	3025-B	0209-0705	Teacher, Theatrical Dancing (sp)
6322-D	1005-0707	Tank Liner	2311-Z	0209-0399	Teacher, Upholstering (TAFE) (sp)
7030-D	0901-0503	Tanker Driver (sp)	2311-E	0209-0309	Teacher, Vehicle Trades (TAFE)
8020-L	1101-2921	Tannery Hand (sp)	3023-G	1203-0513	Teacher, Vocal Music (Private)
6604-A	1011-0301	Tannery Operator	2311-Z	0209-0399	Teacher, Wood Machining (TAFE) (sp)
6302-D	1005-2115	Tanning Solution Preparer (sp)	2301-B	0207-0303	Teacher-in-Charge (sp)
3025-A	1203-0701	Tap Dancer (sp)	2047-A	0305-0101	Technical Assistant, Hydrographics (sp)
4041-C	0409-0105	Tape Librarian	4120-A	0503-0101	Technical Consultant (Chemical Products) (a)
6615-B	0713-2103	Tarpaulin Maker (sp)	4120-B	0503-0103	Technical Consultant (EDP) (a)
1030-A	0213-0101	Tax Accountant (sp)	4120-C	0503-0301	Technical Consultant (Electronic Equipment, Except EDP) (a)
4223-Z	0601-0999	Tax Assessor (sp)	4120-D	0503-0303	Technical Consultant (Industrial Machinery and Equipment) (a)
1030-A	0213-0101	Taxation Account (sp)	4120-F	0503-0105	Technical Consultant (Medical and Dental Equipment and Supplies) (a)
1021	0103-0300	Taxation Manager (sp)	3020-H	0215-0915	Technical Director (a)
7031-C	0901-0305	Taxi Driver	3001-E	0215-0309	Technical Illustrator (sp)
7030-C	0901-0501	Taxi Truck Driver (sp)	4222-A	0601-0903	Technical Inspector (Safety) (a)
4239-B	1101-9911	Tea Lady/Man (sp)	1026	0103-1300	Technical Manager, Computing (sp)
2303-C	0207-0705	Teacher of Hearing Impaired (sp)	2014-A	0301-0301	Technical Officer, Agricultural
2303-Z	0207-0799	Teacher of Intellectually Gifted Children (sp)	2046-C	0301-0505	Technical Officer, Aircraft Electronics (sp)
2303-B	0207-0703	Teacher of Intellectually Handicapped	2046-Z	0301-0599	Technical Officer, Airframe (sp)
2303-C	0207-0705	Teacher of Physically Handicapped	2014-B	0301-0303	Technical Officer, Aquatic Biology (sp)
2303-Z	0207-0799	Teacher of Socially and Emotionally Handicapped Children (sp)	2053-A	0301-0701	Technical Officer, Architectural
2303-C	0207-0705	Teacher of Visually Impaired (sp)	2014-B	0301-0303	Technical Officer, Biology
2303-C	0207-0705	Teacher of the Blind (sp)	2014-B	0301-0303	Technical Officer, Botany (sp)
2303-B	0207-0703	Teacher of the Mentally Handicapped (a)	2053-C	0301-0703	Technical Officer, Building
4291-B	0499-0301	Teacher's Aide	2053-D	0301-0705	Technical Officer, Cartography
3023-F	1203-0511	Teacher, Accordion (Private) (sp)	2014-A	0301-0301	Technical Officer, Cereals (sp)
2310-A	0209-0501	Teacher, Applied Science (TAFE)	2004-A	0301-0101	Technical Officer, Chemistry
3000-E	0209-0701	Teacher, Art (Private)	2046-A	0301-0501	Technical Officer, Civil Construction (sp)
2310-B	0209-0503	Teacher, Art and Design (TAFE)	2046-A	0301-0501	Technical Officer, Civil Engineering
3025-B	0209-0705	Teacher, Ballroom Dancing (sp)	2046-Z	0301-0599	Technical Officer, Coal Mining (sp)
2310-C	0209-0505	Teacher, Building (TAFE)	2046-C	0301-0505	Technical Officer, Communications Engineering (sp)
2311-C	0209-0305	Teacher, Building Trades (TAFE)	2046-E	0301-0509	Technical Officer, Digital Controls (sp)
2310-D	0209-0507	Teacher, Business Studies (TAFE)	2014-B	0301-0303	Technical Officer, Ecological (sp)
2311-Z	0209-0399	Teacher, Cabinet Making (TAFE) (sp)	2046-B	0301-0503	Technical Officer, Electrical Engineering
3025-B	0209-0705	Teacher, Character Dancing (sp)	2046-C	0301-0505	Technical Officer, Electronics Engineering
3025-B	0209-0705	Teacher, Classical Ballet (sp)	2014-B	0301-0303	Technical Officer, Fisheries (sp)
3025-B	0209-0705	Teacher, Creative Dancing (sp)	2015-D	0303-0307	Technical Officer, Forestry (a)
3025-B	0209-0705	Teacher, Dance	2046-D	0301-0507	Technical Officer, Gas Leakage Survey (sp)
3021-B	1203-0103	Teacher, Dramatic Art (Private)	2004-Z	0301-0103	Technical Officer, Geology (sp)
2311-B	0209-0303	Teacher, Electrical Trades (TAFE)	2046-D	0301-0507	Technical Officer, Heating and Ventilating (sp)
2310-E	0209-0509	Teacher, Engineering (TAFE)	2046-B	0301-0503	Technical Officer, Lighting (sp)
2303-Z	0207-0799	Teacher, English as a Second Language (sp)	2046-D	0301-0507	Technical Officer, Mechanical Engineering
3025-B	0209-0705	Teacher, Folk Dancing (sp)	2004-B	0301-0103	Technical Officer, Meteorological
2311-F	0209-0311	Teacher, Food Trades (TAFE)			
2310-K	0209-0521	Teacher, General Studies (TAFE)			
2311-Z	0209-0399	Teacher, Greenkeeping (TAFE) (sp)			

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

\*: only coded in the other structure

Code A	Code B	TITLE	Code A	Code B	TITLE
2014-C	0301-0305	Technical Officer, Microbiology	4022-F	0401-0309	Telex Operator
2004-C	0301-0105	Technical Officer, Optics (sp)	4012-A	0403-0301	Teller (a)
2013-A	0301-0301	Technical Officer, Pastural (sp)	4012-A	0403-0301	Teller, Building Society (a)
2004-C	0301-0105	Technical Officer, Physics	4012-A	0403-0301	Teller, Credit Union (a)
2046-E	0301-0509	Technical Officer, Process Control	6014-D	1003-0507	Temperer
2046-E	0301-0509	Technical Officer, Process Control Maintenance (sp)	6032-A	0701-1501	Template Maker (sp)
2046-D	0301-0507	Technical Officer, Production Control (sp)	4130-M	0505-0125	Tennis Racquet Repairer (sp)
2004-C	0301-0105	Technical Officer, Spectroscopic (sp)	6815-A	0705-0701	Terrazzo Floor Layer (sp)
2004-C	0301-0105	Technical Officer, Spectroscopic (sp)	6404-E	1009-0307	Terrazzo Moulder (sp)
2053-F	0301-0709	Technical Officer, Surveying	6404-H	1009-0313	Terrazzo Polisher (sp)
2046-C	0301-0505	Technical Officer, Telecommunication Engineering (sp)	6815-A	0705-0701	Terrazzo Worker (sp)
2004-D	0301-0107	Technical Officer, Textiles	7001-Z	0307-0199	Test Pilot (sp)
2046-Z	0301-0599	Technical Officer, Welding (sp)	6405-A	1015-0127	Tester, Clay and Stone Products
2014-A	0301-0301	Technical Officer, Horticultural (sp)	6416-A	1015-0125	Tester, Glassware (sp)
6524-H	1013-0917	Technical Operator, Tobacco Products Manufacturing	4223-Z	0601-0999	Testing Officer, Vehicle (sp)
			*	0303-0113	Testing Technician (sp)
3020-H	0215-0915	Technical Producer	5345-Z	*	Testing and Sampling Occupations, Mineral Ore Treating nec
4120-A	0503-0101	Technical Representative (Chemical Products) (a)	2004-D	0301-0107	Textile Colour Technologist (sp)
4120-B	0503-0103	Technical Representative (EDP) (a)	3001-C	0215-0305	Textile Designer (sp)
4120-C	0503-0301	Technical Representative (Electronic Equipment, Except EDP) (a)	6609-A	1015-0137	Textile Examiner (a)
2000-Z	0201-0101	Technical Sales and Service Chemist (sp)	4122-A	0503-0701	Textile Manufacturer's Agent (sp)
4013-Z	0403-0599	Technical Service Clerk, Superannuation (sp)	6601-C	0701-1105	Textile Mechanic, Knitting
2030-C	0213-0705	Technical Systems Analyst (sp)	6601-A	0701-1101	Textile Mechanic, Spinning
6006-B	1003-0303	Teemer (Iron and Steel) (a)	6601-D	0701-1107	Textile Mechanic, Tufting
9013-Z	0311-0999	Telecine Operator (sp)	6601-B	0701-1103	Textile Mechanic, Weaving
2042-B	0203-1103	Telecommunication Engineer (sp)	2004-D	0301-0107	Textile Technologist (a)
2046-C	0301-0505	Telecommunication Engineering Technical Officer (sp)	6619-Z	*	Textile Fabricating, Assembling and Repairing Occupations nec
6111-C	0715-0901	Telecommunication Line Serviceman/woman	2004-D	0301-0107	Textiles Technical Officer (a)
6190-D	0715-4703	Telecommunication Lineman/woman's Assistant	1039-D	0213-9999	Theatrical Agent
6111-C	0715-0901	Telecommunication Liner (a)	3011-A	0215-0701	Theatrical Writer (sp)
1026	0103-1300	Telecommunication Manager (sp)	2002-D	0201-0507	Theoretical Nuclear Physicist (sp)
6110-A	0105-1105	Telecommunication Technical Officer/Supervisor (a)	2401-F	0205-0313	Therapeutic Radiologist (sp)
6190-B	*	Telecommunication Trades Assistant	6302-A	1005-2107	Thermal Cracking Operator (sp)
6111-A	0703-1101	Telecommunication Tradesperson (a)	2002-Z	0201-0501	Thermal Physicist (sp)
6114-A	0703-2701	Telecommunication Tradesperson-in-Training (sp)	6016-B	1003-0703	Thermal Sprayer (a)
6114-A	0703-2701	Telecommunication Trainee	6621-B	0713-2309	Thermo Binder (sp)
6114-Z	0703-1101	Telecommunication Trainee Occupations nec	6621-C	0713-2301	Thermo Side Laster (sp)
9011-Z	*	Telecommunications Officer, Aeronautical (sp)	6312-F	1005-0111	Thermoforming Machine Operator
6114-Z	0703-1101	Telegraph Mechanic (sp)	6311-E	0701-0909	Thermoforming Machine Setter
9011-A	0311-9901	Telegraph Operator (a)	5343-B	1001-0303	Thickener Operator
9010-A	0105-0101	Telegraphist Supervisor (a)	6312-B	1005-0103	Thin Film Extruding Machine Operator (sp)
2042-D	0203-1107	Telemetry Engineer (sp)	7011-C	0307-0705	Third Mate (sp)
2047-C	0305-0501	Telemetry Technician (sp)	2401-J	0205-0317	Thoracic Specialist
4053-C	0411-0505	Telephone Answering-Service Operator	4139-I	*	Ticket Clerk (Travel) (sp)
4139-H	0505-9915	Telephone Bookings Clerk (sp)	4139-H	0505-9915	Ticket Clerk (a)
6190-B	*	Telephone Installer (sp)	4139-H	0505-9915	Ticket Sales Clerk (a)
6190-B	*	Telephone Mechanic (sp)	4139-H	0505-9915	Ticket Salesperson
4053-B	0411-0503	Telephone Operator (a)	4139-G	0505-9913	Ticket Seller (Bus/Tram) (a)
4139-H	0505-9915	Telephone Reservation Sales Clerk (sp)	4139-H	0505-9915	Ticket Seller (a)
4139-H	0505-9915	Telephone Ticket Sales Clerk (sp)	4042-E	0409-0309	Ticket Sorter (sp)
4050-A	0105-0327	Telephonist Supervisor	4293-D	0611-0507	Ticket Taker
4053-B	0411-0503	Telephonist, Switchboard	3009-Z	0311-9999	Ticket Writer (sp)
4053-A	0411-0501	Telephonist, Telecommunications	6605-F	1011-0511	Tier-in
4022-F	0401-0309	Teleprinter Operator (a)	6817-B	0705-1301	Tile Fixer (Wall and Floor) (a)
6190-Z	*	Television Antenna Installer (sp)	6817-B	0705-1301	Tile Layer, Wall and Floor
6111-B	0703-1103	Television Broadcasting Tradesperson (sp)	6817-B	0705-1301	Tile Setter (a)
6211-D	0713-0901	Television Cabinet-Maker (sp)	6817-B	0705-1301	Tiler, Wall and Floor (a)
9013-G	0311-0903	Television Camera Operator	6891-A	1101-1101	Tilers' Assistant (sp)
2042-B	0203-1103	Television Engineer (sp)	5219-A	1101-3309	Timber Assessor
6113-A	0703-1301	Television Mechanic (sp)	6203-G	1015-0117	Timber Grader
6103-A	0703-0901	Television Studio Electrician (sp)	6209-O	0905-0513	Timber Immunising Plant Operator
9013-G	0311-0903	Television-News Camera Operator (sp)	8020-C	1101-2903	Timber Straightener, Sawmill (sp)
			6209-N	0905-0511	Timber Treatment Plant Operator
			6203-H	1007-0109	Timber Yard Saws Operator (a)

Code A: as used in the Main Dictionary

Code B: as used in the Alternative Structure

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Code A	Code B	TITLE	Code A	Code B	TITLE
5309-A	1101-2303	Timberman/woman (Underground Non-Coal Mine)	7111-D	0907-0507	Train Loader Operator
5319-A	1101-2303	Timberman/woman, Underground Coal Mine	5341-C	0905-1105	Train Unloader (Primary Crushing) (a)
2046-D	0301-0507	Time Study Officer (sp)	7009-Z	0307-0599	Trainee Air Traffic Controller (sp)
4011-F	0403-0111	Timekeeping Clerk (sp)	7001-Z	0307-0199	Trainee Airline Pilot (sp)
4032-Z	0407-0399	Timetable and Train Delay Clerk (sp)	2059-Z	0301-0799	Trainee Architectural Technical Officer (sp)
6082-C	1003-1105	Tinner (sp)	2059-Z	0301-0799	Trainee Building Officer (sp)
6082-C	1003-1105	Tinning Line Assistant (sp)	2059-Z	0301-0799	Trainee Building Technical Officer (sp)
6032-C	0701-1505	Tinsmith (sp)	2059-Z	0217-9999	Trainee Cartographer (sp)
7030-D	0901-0503	Tip Truck Driver (sp)	5324-A	0909-1301	Trainee Coal Overburden Driller (sp)
8000-C	1101-1301	Tipman/woman, Earthmoving(sp)	2030-E	0213-0799	Trainee Computer Programmer
2129-F	0611-9911	Tipstaff (a)	5324-C	0903-1103	Trainee Dragline Operator (a)
4099-D	0499-0911	Title Searcher	7021-B	0901-0901	Trainee Engine Driver (a)
6524-I	1013-0915	Tobacco Dryer Attendant (sp)	2049-D	0305-9999	Trainee Engineering Detail Draftsman/woman (a)
5000-L	0801-0105	Tobacco Farmer (a)	7021-B	0901-0901	Trainee Engineman/woman (a)
5000-L	0801-0105	Tobacco Grower	5009-A	0899-0303	Trainee Farm Manager
6621-C	0713-2301	Toe Laster (sp)	7009-Z	0307-0599	Trainee Flight Service Officer (sp)
6332-B	1005-1103	Toiletries Moulder and Compressor	6415-A	0715-4501	Trainee Glass Blower, Molten Tank
5001-B	0803-0103	Tomato Grower (sp)	6114-B	0703-2703	Trainee Lineman/woman, Telecommunication
6541-A	1013-0703	Tomato Products Cook (sp)	6114-B	0715-4701	Trainee Lines Serviceman/woman (sp)
5323-D	0901-0509	Tonnes Motor Lorry Driver (a)	1039-J	0103-9900	Trainee Manager
2043-C	0203-1305	Tool Design Engineer (sp)	1039-J	0103-9900	Trainee Manager, Banking (sp)
6021-A	0701-0501	Tool Designer	1039-J	0103-9900	Trainee Manager, Fast Food Chain (sp)
4219-Z	0601-0999	Tool Mark Examiner (sp)	1039-J	0103-9900	Trainee Manager, Financial (sp)
6021-B	0701-0503	Tool and Die Maker (a)	1039-J	0103-9900	Trainee Manager, Retail Outlet (sp)
6024-B	0715-0303	Tool and Die Setter	1039-J	0103-9900	Trainee Manager, Sales and Marketing (sp)
4033-Z	0407-0599	Tool-Crib Attendant (sp)	1039-J	0103-9900	Trainee Manager, Supermarket (sp)
6021-B	0701-0503	Toolmaker	1039-J	0103-9900	Trainee Manager, Supply and Distribution (sp)
5330-A	0105-1309	Toolpusher	7015-B	0307-9999	Trainee Marine Engineer (sp)
6024-B	0715-0303	Toolsetter (a)	5334-Z	*	Trainee Occupations, Fluids Drilling nec
6031-C	0701-1305	Toolsmith (sp)	5319-Z	0903-1199	Trainee Plant Operator, Underground Coal Mining (sp)
6302-D	1005-2115	Toothpaste Blending Machine Operator (sp)	5324-B	0903-1101	Trainee Shovel Driver (a)
6524-A	1013-0901	Topman/woman (sp)	2059-Z	0301-0799	Trainee Survey Draftsman/woman (sp)
2053-D	0301-0705	Topographic Draftsman/woman (sp)	2059-Z	0301-0799	Trainee Survey Technical Officer (sp)
5339-A	0311-9913	Torque/Turn Computer Operator	2059-Z	0217-9999	Trainee Surveyor (sp)
4292-B	0611-0303	Tour Leader	2049-D	0305-9999	Trainee Technical Assistant, Engineering (a)
7030-A	0901-0101	Tourist Bus Driver (sp)	6113-A	0703-2701	Trainee Telecommunication Tradesman/woman (sp)
4292-A	0611-0301	Tourist Guide	3030-A	1205-0101	Trainer, Sport (a)
7019-A	0307-9907	Tow Boat Engineer Officer (sp)	1025	0103-1100	Training Manager (sp)
7030-C	0901-0501	Tow Truck Driver (sp)	1026	0103-1300	Training Manager, Data Processing (sp)
7101-B	0907-0103	Tower Crane Driver	1032-B	0213-0503	Training Officer
7101-B	0907-0103	Tower Crane Operator (a)	7030-B	0901-0103	Tram Driver
1020	0103-0100	Town Clerk (sp)	6803-B	1101-1701	Tram Lineman/woman, Sugar Mill (sp)
2102-A	0217-0501	Town Planner (sp)	6101-A	0703-0101	Tramway Linesman/woman (sp)
2012-K	0201-1121	Toxicologist (sp)	7030-B	0901-0103	Tramway Motorman/woman (a)
2059-Z	0499-9921	Tracer (sp)	4002-A	0401-0301	Transcription Typist (sp)
6803-A	0903-9901	Track Repair Machine Operator	2042-C	0203-1105	Transformer Design Engineer (sp)
6803-A	0903-9901	Track Repair Machine Operator Class 1 (sp)	3019-B	0215-0709	Translator
5013-A	0903-0901	Tractor Driver, Pineapple Growing (sp)	3019-B	0215-0709	Translator, Bilingual (sp)
5219-Z	1101-3399	Tractor Offsider, Logging (sp)	3019-B	0215-0709	Translator, German (sp)
7101-A	0907-0101	Tractor-Crane Driver (sp)	3019-B	0215-0709	Translator, Legal and Commercial (sp)
6219-Z	1007-0709	Trade Assistant, Wood Products (sp)	3019-B	0215-0709	Translator, Multilingual (sp)
3010-C	0215-0507	Trade Reporter (sp)	3019-B	0215-0709	Translator, One-way (sp)
1039-C	0103-0100	Trade Union Organiser (a)	3019-B	0215-0709	Translator, Scientific (sp)
6190-A	*	Trades Assistant, Electrical	2042-C	0203-1105	Transmission Line Design Engineer (sp)
6219-Z	1007-0709	Trades Assistant, Furniture Manufacture (sp)	2100-H	0217-0115	Transport Economist
6219-Z	1007-0709	Trades Assistant, Joinery Manufacture (sp)	1024	0103-0900	Transport Manager (sp)
6081-A	1003-1101	Trades Assistant, Metal and Metal Products	4030-B	0105-0319	Transport Supervisor (sp)
6081-A	1003-1101	Tradesperson's Helper (a)	4222-G	0601-0931	Travel Accommodation Inspector
1039-F	0501-9905	Trading Floor Operator (Stockbroking)	4139-I	0505-9917	Travel Adviser
4222-I	0601-0929	Traffic Inspector	4121-E	0505-9917	Travel Agent
4099-Z	0499-9999	Traffic Recorder (sp)	4139-I	0505-9917	Travel Clerk (a)
2047-A	0305-0101	Traffic Technician (sp)	4121-E	0505-9917	Travel Consultant (a)
2102-A	0217-0501	Traffic and Transport Planner (sp)	6521-E	0715-1307	Travelling Ovensperson (Biscuits) (sp)
7029-D	0407-0323	Train Controller	5100-A	0311-9903	Trawler Master (a)
7029-E	0601-0939	Train Examiner			

Code A	Code B	TITLE	Code A	Code B	TITLE
6524-E	1013-0909	Treacle Maker (sp)	6403-B	0909-0503	Tunnel Kiln Operator, Clay Products
1021	0103-0300	Treasurer (sp)	2046-F	0301-0501	Tunnels Draftsman/woman (sp)
1000-A	0101-0101	Treasurer, Government (sp)	6023-C	0701-0707	Turbine Fitter (sp)
5029-A	0715-2701	Tree Attendant	9001-C	0905-0305	Turbine Room Attendant (sp)
5029-A	0715-2701	Tree Doctor (sp)	7112-B	0909-0103	Turbine Station Operator (a)
5212-A	0903-0501	Tree Harvester Operator (sp)	5009-Z	0803-0199	Turf Farmer (sp)
5209-A	1101-3303	Tree Marker	3010-C	0215-0507	Turf Reporter (sp)
5201-A	1101-3301	Tree Planter (sp)	2010-E	0201-0709	Turf Specialist (sp)
5212-A	0903-0501	Tree Processor Operator (sp)	9003-C	0905-0105	Turncock (a)
5029-A	0715-2701	Tree Surgeon (sp)	6022-A	0701-0701	Turner (a)
5212-A	0903-0501	Tree-Feller-Processor Operator (sp)	5001-B	0803-0103	Turnip Grower (sp)
6801-G	0903-0113	Trench-Digging Machine Operator	9003-C	0905-0105	Turnkey (a)
4261-C	0713-2505	Trichologist (sp)	6621-B	0713-2309	Turnover Binder (sp)
6206-C	1007-0119	Trim Saw Operator	4293-D	0611-0507	Turnstile Attendant (a)
6514-B	1013-1303	Trimmer (Meat Processing) (a)	7193-A	0903-0301	Turret Truck Driver (sp)
6055-A	0709-0901	Trimmer (Vehicle) (a)	6604-E	1011-0105	Twister (sp)
6203-F	1007-0105	Trimmer (Wood) (a)	6605-F	1011-0511	Twister-in (a)
8020-I	1101-2917	Trolley Cleaner, Abattoir (sp)	6071-B	1015-0103	Typewriter Inspector (Mechanical) (sp)
3023-C	1203-0505	Trombonist (sp)	6061-B	0701-2303	Typewriter Mechanic (sp)
4031-A	0407-0101	Truck Dispatcher (sp)	4002-C	0401-0305	Typist
8090-A	1101-0501	Truck Driver's Offsider	4022-D	0405-0307	Typist, Data Processing (sp)
7030-E	0901-0505	Truck Driver, Articulated	4002-B	0401-0303	Typist-Clerk
7030-D	0901-0503	Truck Driver, Heavy	3010-D	0215-0509	Typographer (sp)
7030-C	0901-0501	Truck Driver, Light	6321-A	1005-0501	Tyre Builder
6052-C	0709-0105	Truck Fitter (sp)	6321-A	1005-0501	Tyre Builder, Aircraft (sp)
8090-A	1101-0501	Truck Jockey (a)	6321-A	1005-0501	Tyre Builder, First Stage (sp)
7101-A	0907-0101	Truck-Mounted Crane Driver (sp)	6321-A	1005-0501	Tyre Builder, Second Stage (sp)
5304-C	0901-0903	Trucker (a)	6321-A	1005-0501	Tyre Builder, Solid (sp)
8020-I	1101-2917	Trucker, Pork Cutting (sp)	6321-A	1005-0501	Tyre Builder, Truck (sp)
4032-Z	0407-0311	Trucks Clerk (sp)	6321-Z	1005-0599	Tyre Curing Operator (sp)
3023-C	1203-0505	Trumpeter (sp)	6321-Z	1015-0109	Tyre Finisher/Examiner (sp)
1034-E	0213-9907	Trust Officer	6321-Z	1005-0599	Tyre Finishing Operator (sp)
6811-A	0705-0301	Tuckpointer (sp)	6321-Z	1005-0599	Tyre Production Occupations nec
6606-C	1011-0519	Tufter (a)	6321-B	1005-0503	Tyre Retreader
6606-C	1011-0519	Tufting Machine Operator	6321-Z	1005-0599	Tyre Uniformity Machine Operator (sp)
7013-A	1101-3501	Tug Hand (sp)	6321-Z	1005-0599	Tyre X-Ray Machine Operator (sp)
7011-D	0307-0707	Tug Master (a)	6059-Z	0715-4101	Tyre and Tube Fitter (sp)
4254-A	*	Tumbler Operator (sp)	6059-Z	0715-4101	Tyre and Tube Repairer (Minor Repairs Only) (sp)
6035-A	1003-0901	Tungsten-Inert-Gas (TIG) Welding Machine Operator (sp)	6321-Z	1005-0599	Tyre-Bead Winder/Former (sp)

## U

6301-D	0303-0113	Ultrasonic Immersion Testing Technician (sp)	1039-C	0103-0100	Union Organiser
6301-D	0303-0113	Ultrasonic Testing Technician (sp)	5000-H	0801-0313	Unit Manager, Poultry Meat Production (a)
3031-B	1205-0303	Umpire (a)	4022-B	0405-0303	Unit Record Equipment Operator (sp)
5319-Z	*	Underground Coal Mining Occupations nec	7191-B	1101-0503	Unloader (sp)
4292-C	0611-0305	Underground Mine Guide (sp)	6614-A	0713-1901	Upholsterer, General
5309-Z	*	Underground Mining Occupations (Except Coal) nec	2102-A	0217-0501	Urban Designer (sp)
5304-Z	0903-0129	Underground Truck Driver (sp)	2109-B	0217-0505	Urban Geographer (sp)
5310-A	0105-1311	Undermanager, Underground Coal Mine	2102-A	0217-0501	Urban and Regional Planner
5310-A	0105-1311	Undermanager-in-Charge, Underground Coal Mine (sp)	2401-N	0205-0325	Urologist
4290-A	0611-0101	Undertaker (a)	2129-F	0611-9911	Usher (Court) (a)
4290-D	0611-0105	Undertaker's Assistant (a)	4293-B	0611-0503	Usher/Usherette, Entertainment
			9009-Z	*	Utilities Equipment and Stationary Engine Operating Occupations nec
			9006-C	0601-0937	Utility Man/Woman (a)

## V

6312-F	*	Vacuum Forming Machine Operator (sp)	6302-J	1005-2123	Vacuum Pan Operator (Chemicals)
6001-Z	0909-0399	Vacuum Furnace Operator (sp)	2005-E	0303-0111	Vacuum Technician (sp)
6001-Z	0909-0399	Vacuum Furnaceman (sp)	4299-G	0501-9907	Valuer (General)

Code A	Code B	TITLE	Code A	Code B	TITLE
4111-C	0501-0505	Valuer (Real Estate)	4022-D	0405-0307	Verifier Operator (sp)
4111-C	0501-0505	Valuer, Agricultural/Pastoral Property (sp)	6024-A	0715-0301	Vertical Borer Setter-Operator (sp)
4299-G	0501-9907	Valuer, Antique and Fine Art (sp)	6022-A	0701-0701	Vertical Driller (sp)
4111-C	0501-0505	Valuer, Hotel (sp)	2011-A	0205-2101	Veterinarian
7030-C	0901-0501	Van Driver (sp)	2019-A	0303-0309	Veterinary Attendant (sp)
3022-B	1203-0303	Variety Artist	2011-A	0205-2101	Veterinary Investigation Officer (sp)
6302-I	1005-2117	Varnish Filterer (sp)	2015-B	0303-0303	Veterinary Laboratory Technician (sp)
3022-Z	1203-0399	Vaudeville Artist (sp)	2019-A	0303-0309	Veterinary Nurse
6514-C	1013-1305	Veal Boner (sp)	2011-A	0205-2101	Veterinary Officer (sp)
5000-B	0801-0301	Veal Producer (sp)	2012-M	0201-1125	Veterinary Parasitologist (sp)
6514-D	1013-1303	Veal Slicer (sp)	2012-M	0201-1125	Veterinary Pathologist (sp)
5001-B	0803-0103	Vegetable (Annual Horticultural Crop) Grower	2011-A	0205-2101	Veterinary Practitioner (a)
6504-A	1013-1199	Vegetable Dehydrator (sp)	2011-A	0205-2101	Veterinary Surgeon (a)
6541-B	1013-0701	Vegetable Peeler Operator (sp)	5332-M	0909-9901	Vibrator Operator, Seismic Prospecting
8030-B	1101-3103	Vegetable Picker, General (sp)	1020	0103-0100	Vice Principal (Educational Institution) (sp)
6082-E	1003-1107	Vehicle Assembler (sp)	1020	0103-0100	Vice-Chancellor (sp)
6071-A	1015-0105	Vehicle Assembly Inspector (a)	9013-Z	0311-0999	Video and Sound Recorder (sp)
6055-B	0709-0701	Vehicle Body Builder (a)	6082-G	1015-0103	Viewer (Metal Products) (a)
4251-F	1101-2511	Vehicle Cleaner	6191-C	1015-0107	Viewer, Electrical and Electronic Equipment (a)
6054-A	0709-0501	Vehicle Painter	5001-A	0803-0101	Vigneron (sp)
6059-Z	0715-4101	Vehicle Repairer, Non-Trade (sp)	5001-A	0803-0101	Vineyard Manager (sp)
4223-Z	0601-0999	Vehicle Testing Officer (sp)	4297-B	0713-2903	Violin Maker/Repairer (sp)
6055-A	0709-0901	Vehicle Trimmer	3023-C	1203-0505	Violinist (sp)
6055-A	0709-0901	Vehicle Upholsterer (a)	3023-C	1203-0505	Violist (sp)
4132-E	1101-9913	Vending Machine Attendant	2012-I	0201-1117	Virologist (sp)
6059-A	0715-4901	Vending Machine Serviceman/woman (sp)	6514-A	1013-1301	Viscera Defatter (sp)
6204-B	1007-0305	Veneer Clipper	6514-A	1013-1301	Viscera Worker (a)
6209-L	1007-0319	Veneer Guillotine Operator	9013-Z	0311-0999	Vision Switcher (sp)
6206-A	1007-0301	Veneer Lathe/Slicer Operator	3009-Z	*	Visual Arts, Craft and Design Occupations nec
6205-Z	1007-0599	Veneer Line Operator, Particleboard Manufacture (sp)	3009-B	0311-9999	Visual Merchandiser (a)
6204-D	1007-0309	Veneer Splicing Machine Operator	5001-A	0803-0101	Viticulturist (sp)
6209-L	1007-0319	Veneer Trimmer Operator (a)	3023-B	1203-0503	Vocal Soloist (sp)
5309-C	1101-2303	Vent Operator (a)	3023-E	1203-0509	Vocalist (a)
8010-B	1101-2303	Ventilation Hand, Underground Mine (sp)	2111-A	0211-0301	Vocational Counsellor (sp)
5309-C	1101-2303	Ventilation Man/Woman	2001-A	0201-0301	Volcanologist (sp)
3022-B	1203-0303	Ventriloquist (sp)	2001-A	0201-0301	Vulcanologist (sp)

## W

4235-A	0603-0303	Waiter/Waitress, Formal Service	6605-A	1011-0501	Warp Sizer
4235-D	0603-0309	Waiter/Waitress, General	6605-B	1011-0503	Warper
6817-B	0705-1301	Wall Tiler (sp)	4033-C	0407-0505	Warrantry Clerk
6817-B	0705-1301	Wall and Floor Tile Laying Contractor (sp)	5343-A	1001-0301	Wash Plant Operator
6817-B	0705-1301	Wall and Floor Tile Laying Sub-contractor (sp)	6514-A	1013-1301	Wash-Rail Trimmer (sp)
6891-A	1101-1199	Wall and Floor Tilelayers' Assistant (sp)	4254-A	*	Washing Machine Operator (sp)
6817-B	0705-1301	Wall and Floor Tiler (a)	5343-Z	*	Washing, Mixing, Separating and Filtering Occupations (Mineral Ores) nec
6892-C	1101-1107	Wallboard Fixer (sp)	4254-A	*	Washman/woman
3001-C	0215-0305	Wallpaper Designer (sp)	9004-Z	*	Waste Disposal Equipment Operating Occupations nec
6814-B	0705-0505	Wallpaper Hanger (a)	6399-D	0905-1135	Waste Water Treatment Plant Operator
6891-A	1101-1199	Wallpaperers' Assistant (sp)	6061-C	0701-2305	Watch and Clock Repairer
5001-A	0803-0101	Walnut Grower (sp)	7019-A	0307-9907	Watchkeeper Engineer (sp)
2419-E	0609-0507	Ward Helper	6061-C	0701-2305	Watchmaker (a)
2119-G	0217-9907	Warden, Student Activities (a)	9003-B	0905-0103	Water Bailiff
6612-C	0715-2303	Wardrobe Assistant	7030-D	0901-0503	Water Cart Driver (sp)
6612-C	0715-2301	Wardrobe Co-ordinator (sp)	3000-A	0215-0101	Water Colour Painter (sp)
3028-E	0715-2301	Wardrobe Supervisor	4222-B	0601-0911	Water Inspector (sp)
2419-F	0609-0509	Wardsman/maid	9003-B	0905-0103	Water Officer (a)
7121-A	*	Warehouseman/woman (sp)	4213-A	0601-0101	Water Police Officer (sp)
6605-B	1011-0503	Warp Beamer (a)	6399-C	0905-1133	Water Purification Plant Operator (a)
			2009-A	0201-9901	Water Quality Analyst (sp)

Code A	Code B	TITLE	Code A	Code B	TITLE
9003-C	0905-0105	Water Service Operator	5390-A	0907-0307	Winding Engine Driver
2041-C	0203-0905	Water Supply Distribution Engineer (sp)	4251-D	1101-2507	Window Cleaner
7019-Z	*	Water Transport Operating Occupations nec	3009-A	0311-9909	Window Dresser
6399-C	0905-1133	Water Treatment Plant Operator	6892-C	1101-1107	Window Fitter (sp)
7030-D	0901-0503	Water Truck Driver (sp)	6892-C	1101-1107	Window Installer (sp)
7030-D	0901-0503	Water Truck Operator (sp)	6892-B	*	Window Tinter (sp)
5331-C	0909-0703	Water Well Driller	6503-Z	1013-0199	Wine Blender (sp)
5334-C	0909-1111	Water Well Driller's Assistant	2010-Z	0201-0713	Wine Maker (sp)
4099-E	0499-9903	Water-Meter Reader (sp)	4235-B	0603-0305	Wine Steward/Stewardess (a)
5001-B	0803-0103	Watermelon Grower (sp)	4235-B	0603-0305	Wine Waiter/Waitress
7191-Z	1101-0999	Waterside Worker (sp)	6500-B	0105-1513	Winery Supervisor (sp)
3000-B	0215-0103	Wedding Photographer (sp)	5302-D	0909-0713	Winze Sinkers/Miner (sp)
4299-F	0611-9907	Weed Controller (sp)	6013-B	1003-0309	Wire Drawer
4299-F	0611-9907	Weed Specialist (sp)	6013-B	1003-0309	Wire Drawing Machine Operator (a)
4034-Z	0407-0799	Weigher, Carcass (sp)	6892-A	1101-1109	Wire Fence Contractor/Erector (sp)
4034-B	0407-0703	Weigher, Counter (a)	6070-B	0701-2503	Wire Inspector (sp)
4034-Z	0407-0705	Weigher, Drug and Toilet Goods (sp)	6013-C	1003-0311	Wire Sheather (sp)
4034-Z	0407-0799	Weigher, Livestock (sp)	9019-A	0405-0309	Wire-Photo Operator, News (sp)
4034-B	0407-0703	Weigher, Production	5332-B	0907-0305	Wireline Operator (Electric Line)
4034-Z	*	Weighers nec	5332-Z	0907-0399	Wireline Operator (Non-Electric Line) (sp)
6034-B	0701-1799	Welder, Aircraft (sp)	5334-A	0907-0901	Wireline Operator Trainee (Electric Line)
6034-B	0701-1799	Welder, First Class (a)	6619-C	0715-2307	Women's Hat Maker (a)
6034-A	0701-1701	Welder, Pressure Pipes (a)	2119-D	0311-0107	Women's Refuge Adviser (sp)
6034-A	0701-1701	Welder, Pressure Vessels (a)	6212-A	0713-1101	Wood Carver
6035-Z	1003-0999	Welder, Second Class (sp)	3003-Z	0713-1199	Wood Craftworker (sp)
6034-B	0701-1799	Welder, Special Class (sp)	6205-C	1007-0511	Wood Fibre Refining Machine Operator
6082-E	1003-1107	Welder, Third Class (sp)	6212-F	0713-1109	Wood Finisher (a)
6035-Z	*	Welding Non-Trade Machine Operators nec	6209-Z	*	Wood Processing and Machining Occupations nec
6070-A	0701-2501	Welding Supervisor (a)	6219-Z	*	Wood Products Fabricating, Assembling and Repairing Occupations nec
2046-Z	*	Welding Technical Officer (sp)	3000-D	0215-0107	Wood Sculptor (sp)
2047-Z	0305-9999	Welding Technician (sp)	6201-D	0713-0705	Wood Turner
6034-B	*	Welding Tradesperson	6623-D	1011-0905	Wood-Heel Finisher (sp)
2119-D	0311-0107	Welfare Officer	6201-C	0713-0703	Woodworking Machine Line Setter
5332-H	0909-0111	Well Treatment Blender Operator	6206-Z	*	Woodworking Machine Operators nec
5335-B	0909-1101	Well Treatment Helper (sp)	6201-A	0713-0701	Woodworking Machine Setter (sp)
5332-I	0909-0113	Well Treatment Pump Operator	4122-D	0503-0707	Wool Buyer/Merchant (sp)
2005-C	0303-0105	Well-Lagging Technician (sp)	6603-A	0715-2507	Wool Classer
6621-C	0713-2301	Welt Toe Laster (sp)	5000-D	0801-0305	Wool Grower (sp)
6341-A	1005-1301	Wet Explosive Mixer (sp)	5011-B	1101-3113	Wool Presser
5343-J	1001-0319	Wet Plant Operator (a)	5000-D	0801-0305	Wool Producer (sp)
6603-B	0715-2505	Wet-Blue Leather Classer (sp)	6604-B	1011-0101	Wool Scouring Operator
4032-Z	0407-0313	Wharf Clerk (sp)	4032-C	0407-0305	Wool Shipping Checker (sp)
7101-A	0907-0101	Wharf-Crane Driver, Mobile Crane (sp)	4100-Z	0105-0599	Woolbroker (sp)
7101-B	0907-0103	Wharf-Crane Driver, Tower Crane (sp)	6604-A	1011-0301	Woolpulling Machine Operator (sp)
5000-J	0801-0101	Wheat Grower (sp)	4022-E	0401-0307	Word Processor Operator
5000-A	0801-0501	Wheat/Sheep Farmer (sp)	4030-A	0105-0317	Work Shop Controller (sp)
6059-Z	0715-4101	Wheel Balancer (sp)	1031-D	0499-0503	Work Study Officer
4221-C	0601-0913	Wildlife Officer	4240-E	0605-0101	Working Manager, Boarding House (sp)
7102-B	0907-0303	Winch Operator	4240-E	0605-0101	Working Manager, Hotel (sp)
5390-A	0907-0307	Winch Operator (Mine Cage) (a)	5332-F	0909-0903	Workover Rig Operator (a)
4297-Z	0713-2999	Wind Instrument Repairer (sp)	1023	0103-0700	Works Manager (sp)
5390-A	0907-0307	Winder Driver (Mine Cage) (a)	6891-A	1101-1101	Wrecker, Building (sp)
6222-F	1007-0913	Winder Operator	3019-Z	*	Writing Occupations nec

## X

5345-Z	1001-0599	X-Ray Fluorescence Operator (sp)	2005-B	0303-0111	X-Ray Technician (sp)
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## Y

7029-C	0903-9903	Yard Assistant, Railway (a)	7020-C	0105-1301	Yard Foreman/woman, Freight (sp)
7020-C	0105-1301	Yard Controller, Railway	7020-C	0105-1301	Yard Foreman/woman, Railway (a)

Code A	Code B	TITLE	Code A	Code B	TITLE
8020-H	1101-2911	Yard Hand, Cement Plant (a)	6525-Z	1013-0999	Yeast Process Worker (sp)
8020-H	1101-2911	Yard Hand, Concrete Plant (a)	3023-Z	1203-0599	Yodeller (sp)
7020-C	0105-1301	Yard Master/Mistress, Railway (a)	6533-A	1013-0301	Yoghurt Maker (sp)
8020-E	1101-2909	Yardhand, Pulp and Papermaking (sp)	4240-G	0605-0105	Youth Hostel Warden (a)
6604-E	1011-0105	Yarn Texture Machine Operator (sp)	2119-E	0311-0109	Youth Leader (a)
6604-E	1011-0105	Yarn Winder (sp)	2119-E	0311-0109	Youth Officer (a)
6609-A	1015-0137	Yarn and Fabric Examiner	2119-E	0311-0109	Youth Worker
6606-Z	*	Yarn and Fabric Machine Operating Occupations (Other) nec	2119-E	0311-0109	Youth Worker, Correctional Institution (sp)
6609-Z	*	Yarn and Fabric Occupations nec	2119-E	0311-0109	Youth Worker, Employment (sp)
			2119-E	0311-0109	Youth Worker, Recreation (sp)

## Z

6621-B	0713-2309	Zig-Zag Machinist (Shoemaking) (sp)	2012-M	0201-1125	Zoologist
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